

File:**tulostettavat/static/scripts/controllers/answerToQuestionController.js**

```
1  /**
2   * Created by hajoviin on 22.4.2015
3   * FILL WITH SUITABLE TEXT
4   * @module answerToQuestionController
5   * @author Matias Berg
6   * @author Bek Eljurkaev
7   * @author Minna Lehtomäki
8   * @author Juhani Sihvonen
9   * @author Hannu Viinikainen
10  * @licence MIT
11  * @copyright 2015 Timppa project authors
12  */
13
14  var angular;
15
16  var timApp = angular.module('timApp');
17  timApp.controller('AnswerToQuestionController', ['$scope',
18  '$rootScope', function ($scope, $rootScope) {
19      "use strict";
20      $scope.questionHeaders = [];
21      $scope.answerTypes = [];
22      $scope.dynamicAnswerSheetControl = {};
23      $scope.isLecturer = false;
24      $scope.questionTitle = "";
25
26      $scope.$on("setQuestionJson", function (event, args) {
27          $scope.questionId = args.questionId;
28          $scope.isLecturer = args.isLecturer;
29          $scope.questionJson = args.questionJson;
30          $scope.questionTitle = args.questionJson.TITLE;
31
32          $scope.dynamicAnswerSheetControl.createAnswer();
33      });
34
35      /**
36       * FILL WITH SUITABLE TEXT
37       * @memberof module:answerToQuestionController
38       */
39      $scope.answer = function () {
40          $scope.dynamicAnswerSheetControl.answerToQuestion();
41          if($scope.isLecturer) {
42              $rootScope.$broadcast("lecturerAnswered");
43          }
44      };
45
46      /**
47       * FILL WITH SUITABLE TEXT
48       * @memberof module:answerToQuestionController
49       */
50      $scope.close = function () {
51          $scope.dynamicAnswerSheetControl.closeQuestion();
52      };
53
54      /**
55       *
56       */
```

```
57     $scope.showAnswers = function () {
58         $scope.$emit('showAnswers', true);
59     };
60 }]);
```

File: tulostettavat/static/scripts/controllers/lectureInfoController.js

```
1  /**
2   * Created by hajoviin on 11.5.2015.
3   * Handles the controls of lecture info page.
4   * @module lectureInfoController
5   * @author Matias Berg
6   * @author Bek Eljurkaev
7   * @author Minna Lehtomäki
8   * @author Juhani Sihvonen
9   * @author Hannu Viinikainen
10  * @licence MIT
11  * @copyright 2015 Timppa project authors
12  */
13
14  var angular, docId, lectureId, lectureCode, lectureStartTime,
lectureEndTime;
15
16  var timApp = angular.module('timApp');
17  timApp.controller('LectureInfoController', ['$scope', '$http',
'$window', function ($scope, $http, $window) {
18      "use strict";
19      $scope.docId = docId;
20      $scope.lectureId = lectureId;
21      $scope.lectureCode = "Lecture info: " + lectureCode;
22      $scope.lectureStartTime = lectureStartTime;
23      $scope.lectureEndTime = lectureEndTime;
24      $scope.msg = "";
25      $scope.answers = "";
26      $scope.userName = "";
27      $scope.dynamicAnswerShowControls = [];
28      $scope.dynamicAnswerShowControl = {};
29      $scope.index = 0;
30      $scope.isLecturer = false;
31      $scope.answerers = [];
32      $scope.showPoints = false;
33      $scope.points = [];
34
35      /**
36       * Sends http request to get info about the specific lecture.
37       * @memberof module:lectureInfoController
38       */
39      $scope.getLectureInfo = function () {
40          $http({
41              url: '/getLectureInfo',
42              type: 'GET',
43              params: {lecture_id: $scope.lectureId}
44          })
45              .success(function (answer) {
46
47                  angular.forEach(answer.messages, function (msg) {
48                      $scope.msg = $scope.msg + msg.sender + " <" +
msg.time + ">: " + msg.message + "\n";
```

```

49         });
50         $scope.answers = answer.answers;
51         for (var i = 0; i < answer.questions.length; i++) {
52             $scope.dynamicAnswerShowControls.push({});
53             $scope.points.push(0);
54         }
55         $scope.questions = answer.questions;
56         $scope.isLecturer = answer.isLecturer;
57         $scope.answerers = answer.answerers;
58         $scope.userName = answer.userName;
59     })
60     .error(function () {
61         $window.console.log("fail");
62     });
63 };
64
65 /*
66  Gets the lecture info when loading page.
67  */
68 $scope.getLectureInfo();
69
70 /**
71  * Sends http request to delete the lecture.
72  * @memberof module:lectureInfoController
73  */
74 $scope.deleteLecture = function () {
75     var confirmAnswer = $window.confirm("Do you really want to
delete this lecture?");
76     if (confirmAnswer) {
77         $http({
78             url: '/deleteLecture',
79             method: 'POST',
80             params: {'doc_id': $scope.docId, lecture_id:
$scope.lectureId}
81         })
82             .success(function () {
83                 window.history.back();
84             })
85             .error(function () {
86                 $window.console.log("Failed to delete the
lecture");
87             });
88     }
89 };
90
91 /**
92  * Draws charts from the answer of the current lecture.
93  * @param userName Which users answers to shows. If undefined
shows from every user.
94  * @memberof module:lectureInfoController
95  */
96 $scope.drawCharts = function (userName) {
97     for (var p = 0; p < $scope.points.length; p++) {
98         $scope.points[p] = 0;
99     }
100     $scope.showPoints = true;
101     var user;
102     if (typeof userName === 'undefined') {
103         user = "";
104     } else {
105         user = userName;

```

```

106     }
107     var questionIndexes = [];
108     for (var i = 0; i <
$scope.dynamicAnswerShowControls.length; i++) {
109
110     $scope.dynamicAnswerShowControls[i].createChart(JSON.parse($scope.questions[i].questionJson));
111     questionIndexes.push($scope.questions[i].question_id);
112     }
113     for (var j = 0; j < $scope.answers.length; j++) {
114         if (($scope.isLecturer && user === "") ||
115         $scope.answers[j].user_name === user) {
116             $scope.dynamicAnswerShowControls[questionIndexes.indexOf($scope.answers[j].question_id)]
117             .addAnswer([{"answer":
118             $scope.answers[j].answer}]);
119             $scope.points[questionIndexes.indexOf($scope.answers[j].question_id)] +=
120             $scope.answers[j].points;
121         }
122     }
123     if ($scope.answers.length <= 0) {
124         var elem = $("#infoBox");
125         elem.empty();
126         elem.append("No answers from this lecture");
127     }
128 };
129 }]);

```

File:

tulostettavat/static/scripts/controllers/questionPreviewController.js

```

1  /**
2   * FILL WITH SUITABLE TEXT
3   * @module questionPreviewController
4   * @author Matias Berg
5   * @author Bek Eljurkaev
6   * @author Minna Lehtomäki
7   * @author Juhani Sihvonen
8   * @author Hannu Viinikainen
9   * @licence MIT
10  * @copyright 2015 Timppa project authors
11  */
12
13  var angular, docId, lectureId, lectureCode, lectureStartTime,
14  lectureEndTime;
15  var timApp = angular.module('timApp');
16  timApp.controller('QuestionPreviewController', ['$scope', '$window',
17  '$http', '$rootScope',
18  function ($scope, $window, http, $rootScope) {
19      //TODO parse json and set values from rows and columns to
20      scope variables

```

```

19 //TODO edit questionPreview.html to repeat rows and columns
20 "use strict";
21
22 /**
23  * FILL WITH SUITABLE TEXT
24  * @memberof module:questionPreviewController
25  */
26 $scope.editQuestion = function () {
27     $scope.close();
28     $rootScope.$broadcast("editQuestion", {"question_id":
$scope.qId, "json": $scope.json});
29
30 };
31
32 /**
33  * FILL WITH SUITABLE TEXT
34  * @memberof module:questionPreviewController
35  */
36 $scope.ask = function () {
37     http({
38         url: '/askQuestion',
39         method: 'POST',
40         params: {
41             lecture_id: $scope.lectureId,
42             question_id: $scope.qId,
43             doc_id: $scope.docId,
44             buster: new Date().getTime()
45         }
46     })
47     .success(function () {
48         $rootScope.$broadcast('askQuestion', {"json":
$scope.json, "questionId": $scope.qId});
49         $scope.$emit('closeQuestionPreview');
50     })
51     .error(function (error) {
52         $scope.$emit('closeQuestionPreview');
53         $window.console.log(error);
54     });
55 };
56
57 /**
58  * FILL WITH SUITABLE TEXT
59  * @memberof module:questionPreviewController
60  */
61 $scope.close = function () {
62     $scope.$emit('closeQuestionPreview');
63 };
64
65 /**
66  * FILL WITH SUITABLE TEXT
67  * @memberof module:questionPreviewController
68  */
69 $scope.deleteQuestion = function () {
70     var confirmDi = $window.confirm("Are you sure you want
to delete this question?");
71     if (confirmDi) {
72         http({
73             url: '/deleteQuestion',
74             method: 'POST',
75             params: {question_id: $scope.qId, doc_id:
$scope.docId}

```

```

76         })
77         .success(function () {
78             $scope.$emit('closeQuestionPreview');
79             $window.console.log("Deleted question");
80             location.reload();
81         })
82         .error(function (error) {
83
84             $scope.$emit('closeQuestionPreview');
85             $window.console.log(error);
86         });
87     }
88     };
89 }
90 ]);
91 ]);

```

File:

tulostettavat/static/scripts/controllers/showStatisticsToQuestionController.js

```

1  /**
2   * Created by hajoviin on 6.5.2015.
3   * FILL WITH SUITABLE TEXT
4   * @module showStatisticsToQuestionController
5   * @author Matias Berg
6   * @author Bek Eljurkaev
7   * @author Minna Lehtomäki
8   * @author Juhani Sihvonen
9   * @author Hannu Viinikainen
10  * @licence MIT
11  * @copyright 2015 Timppa project authors
12  */
13
14  var angular;
15
16  var timApp = angular.module('timApp');
17  timApp.controller('ShowStatisticsToQuestionController', ['$scope',
18  '$http', function ($scope) {
19      "use strict";
20      $scope.dynamicAnswerShowControl = {};
21      $scope.canvas = "";
22      $scope.questionTitle = "";
23      $scope.lecturerAnswered = false;
24
25      $scope.$on("closeAnswerSheetForGood", function() {
26          $scope.$emit('closeAnswerShow');
27          $scope.dynamicAnswerShowControl.close();
28      });
29      /**
30       * Closes statistic window
31       * @memberof module:showStatisticsToQuestionController
32       */
33      $scope.close = function () {
34          $scope.$emit('closeAnswerShow');
35          if($scope.lecturerAnswered) {
36              $scope.dynamicAnswerShowControl.close();
37          }
38      }
39  }
40  ]);

```

```

37     };
38
39     $scope.$on("lecturerAnswered", function () {
40         $scope.lecturerAnswered = true;
41     });
42
43     /**
44     * Adds answer to statistic directive
45     * @memberof module:showStatisticsToQuestionController
46     */
47     $scope.$on("putAnswers", function (event, answer) {
48         $scope.dynamicAnswerShowControl.addAnswer(answer.answers);
49     });
50
51     /**
52     * Creates chart based on question json.
53     * @memberof module:showStatisticsToQuestionController
54     */
55     $scope.$on("createChart", function (event, question) {
56         $scope.lecturerAnswered = false;
57         $scope.dynamicAnswerShowControl.createChart(question);
58         $scope.questionTitle = question.QUESTION;
59     });
60
61 }]);
62

```

File: tulostettavat/static/scripts/createLectureCtrl.js

```

1  /**
2  * Lecture creation controller which is used to handle and validate
the form data.
3  * @module createLectureCtrl
4  * @author Matias Berg
5  * @author Bek Eljurkaev
6  * @author Minna Lehtomäki
7  * @author Juhani Sihvonen
8  * @author Hannu Viinikainen
9  * @licence MIT
10 * @copyright 2015 Timppa project authors
11 */
12
13 var angular;
14
15 var timApp = angular.module('timApp');
16
17 timApp.controller("CreateLectureCtrl", ['$scope', "$http",
"$window",
18
19     function ($scope, $http, $window) {
20         "use strict";
21         $scope.showLectureCreation = false;
22         $scope.useDate = false;
23         $scope.useDuration = false;
24         $scope.dateChosen = false;
25         $scope.durationChosen = false;
26         $scope.durationHour = "";
27         $scope.durationMin = "";

```

```

28     $scope.lectureId = null;
29     $scope.dateCheck = false;
30     $scope.dueCheck = false;
31     $scope.error_message = "";
32     $scope.lectureCode = "";
33     $scope.password = "";
34     $scope.startDate = "";
35     $scope.startHour = "";
36     $scope.startMin = "";
37     $scope.earlyJoining = true;
38     var date = new Date();
39     $scope.editMode = false;
40     $scope.startDate = date.getDate() + "." + (date.getMonth() +
41 1) + "." + date.getFullYear();
42     angular.element('#startDate').datepicker({dateFormat:
'dd.m.yy'}); //calendar for start date initialized
43     angular.element('#endDate').datepicker({dateFormat:
'dd.m.yy'}); //calendar for start date initialized
44     /**
45     * Function called when new lecture form button is pressed.
46     * @memberof module:createLectureCtrl
47     */
48     $scope.$on('initLectureFormVals', function () {
49         $scope.initLectureForm();
50     });
51
52     $scope.$on('editLecture', function (event,data) {
53         $scope.lectureCode = data.lecture_name;
54         $scope.lectureId = data.lecture_id;
55         var splittedStart = data.start_date.split(" ");
56         var splittedStartTime = splittedStart[1].split(":");
57         var splittedStartDate = splittedStart[0].split("-");
58         $scope.startMin = splittedStartTime[1];
59         $scope.startHour = splittedStartTime[0];
60         $scope.startDate = splittedStartDate[2] + "." +
splittedStartDate[1] + "." + splittedStartDate[0];
61         var splittedEnd = data.end_date.split(" ");
62         var splittedEndTime = splittedEnd[1].split(":");
63         var splittedEndDate = splittedEnd[0].split("-");
64         $scope.enableDate2();
65         $scope.endMin = splittedEndTime[1];
66         $scope.endHour = splittedEndTime[0];
67         $scope.endDate = splittedEndDate[2] + "." +
splittedEndDate[1] + "." + splittedEndDate[0];
68         if(data.password !== undefined){
69             $scope.password = data.password;
70         }
71         $scope.editMode = data.editMode;
72     });
73
74     /**
75     * Lecture form initialized to have the current date and
time as default starting time.
76     * @memberof module:createLectureCtrl
77     */
78     $scope.initLectureForm = function () {
79         $window.console.log("Lecture initialized.");
80         var date = new Date();
81         $scope.startDate = date.getDate() + "." +
(date.getMonth() + 1) + "." + date.getFullYear();

```



```

82         $scope.startHour = $scope.leftPadder(date.getHours(),
2);
83         $scope.startMin = $scope.leftPadder(date.getMinutes(),
2);
84         $scope.dueCheck = true;
85         $scope.earlyJoining = true;
86         $scope.enableDue2();
87     };
88
89     $scope.populateLectureForm = function(name) {
90         $scope.lectureCode = name;
91     };
92
93     /**
94     * This function is called if end date is selected. Sets
boolean values to reflect this choice and sets
95     * the default end time to 2 hours ahead of start time.
96     * @memberof module:createLectureCtrl
97     */
98     $scope.enableDate2 = function () {
99         $window.console.log($scope.startDate);
100         $scope.dateCheck = true;
101         $scope.dueCheck = false;
102         $scope.endDate = $scope.startDate;
103         $scope.endHour =
$scope.leftPadder(parseInt($scope.startHour) + 2, 2);
104         $scope.endMin = $scope.leftPadder($scope.startMin, 2);
105
106         $scope.useDate = true;
107         $scope.useDuration = false;
108         $scope.durationHour = "";
109         $scope.durationMin = "";
110     };
111
112     /**
113     * Function for enabling fields and buttons for "Duration"
and disabling them for "Use date". This function
114     * is called when duration is chosen and is chosen by
default.
115     * @memberof module:createLectureCtrl
116     */
117     $scope.enableDue2 = function () {
118         $scope.dateCheck = false;
119         $scope.dueCheck = true;
120         $scope.useDuration = true;
121         $scope.useDate = false;
122         $scope.endDay = "";
123         $scope.endMonth = "";
124         $scope.endYear = "";
125         $scope.endHour = "";
126         $scope.endMin = "";
127         $scope.durationHour = "02";
128         $scope.durationMin = "00";
129     };
130
131     /**
132     * Remove border from given element.
133     * @param element ID of the field whose border will be
removed.
134     * @memberof module:createLectureCtrl
135     */

```

```

136     $scope.defInputStyle = function (element) {
137         if (element !== null || !element.isDefined) {
138             angular.element("#"+element).css("border", "");
139         }
140     };
141
142     /**
143     * Checks if the value is between 0-23
144     * @param element The value of the element to be validated.
145     * @param val The ID of the input field so user can be
146     notified of the error.
147     * @memberof module:createLectureCtrl
148     */
149     $scope.isHour = function (element, val) {
150         if (element === "" || isNaN(element) || element > 23 ||
151         element < 0) {
152             $scope.errorize(val, "Hour has to be between 0 and
153             23.");
154         }
155     };
156
157     /**
158     * Checks if the value is between 0-59
159     * @param element The value of the element to be validated.
160     * @param val The ID of the input field so user can be
161     notified of the error.
162     * @memberof module:createLectureCtrl
163     */
164     $scope.isMinute = function (element, val) {
165         if (element === "" || isNaN(element) || element > 59 ||
166         element < 0) {
167             $scope.errorize(val, "Minutes has to be between 0
168             and 59.");
169         }
170     };
171
172     /**
173     * Checks if the number given is positive.
174     * @param element The value of the element to be validated.
175     * @param val The ID of the input field so user can be
176     notified of the error.
177     * @memberof module:createLectureCtrl
178     */
179     $scope.isPositiveNumber = function (element, val) {
180         if (element === "" || isNaN(element) || element < 0) {
181             $scope.errorize(val, "Number has to be positive.");
182         }
183     };
184
185     /**
186     * Function for validating that the date is of the format
187     dd.mm.yyyy.
188     * @param element The value of the element to be validated.
189     * @param val The ID of the input field so user can be
190     notified of the error.
191     * @memberof module:createLectureCtrl
192     */
193     $scope.isDateValid = function (element, val) {
194         var reg = new RegExp("^(0?[1-9]|[12][0-
195         9]|3[01])[.](0?[1-9]|1[012])[.](19|20)?[0-9]{2}$");
196         if (!reg.test(element)) {

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```

187             $scope.errorize(val, "Date is not of format
dd.mm.yyyy or date is invalid.");
188         }
189     };
190
191     /**
192     * Translates date object to string in the form yyyy-mm-dd
hh:mm
193     * @param input JavaScript date object
194     * @param include_time Boolean value whether to include the
time or not
195     * @returns {string} yyyy-mm-dd( hh:mm)
196     * @memberof module:createLectureCtrl
197     */
198     $scope.dateObjectToString = function (input, include_time)
{
199         var output = $scope.leftPadder(input.getFullYear(), 4)
+ "-" +
200         $scope.leftPadder(input.getMonth() + 1, 2) + "-" +
201         $scope.leftPadder(input.getDate(), 2);
202         if (include_time) {
203             output += " " + $scope.leftPadder(input.getHours(),
2) + ":" +
204             $scope.leftPadder(input.getMinutes(), 2);
205         }
206         return output;
207     };
208     /**
209     * Creates a new date object with the specified date and
time
210     * @param date_to_be_validated Date as a string in either
seperated by dots or dashes.
211     * @param time_hours
212     * @param time_mins
213     * @param splitter Date seperator.
214     * @returns {Date} Returns a JavaScript date object.
215     * @memberof module:createLectureCtrl
216     */
217     $scope.translateToDateObject = function
(date_to_be_validated, time_hours, time_mins, splitter) {
218         var parms = date_to_be_validated.split(splitter);
219         var dd;
220         var mm;
221         var yyyy;
222
223         if (splitter === ".") {
224             dd = parseInt(parms[0], 10);
225             mm = parseInt(parms[1], 10);
226             yyyy = parseInt(parms[2], 10);
227         } else {
228             dd = parseInt(parms[2], 10);
229             mm = parseInt(parms[1], 10);
230             yyyy = parseInt(parms[0], 10);
231         }
232         var hours = parseInt(time_hours,10);
233         var mins = parseInt(time_mins,10);
234         return new Date(yyyy, mm - 1, dd, hours, mins, 0);
235     };
236
237     /**
238     * Function for creating a new lecture and validation.

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239         * @memberof module:createLectureCtrl
240         */
241         $scope.submitLecture = function () {
242             if($scope.lectureId === undefined || $scope.lectureId
=== null) {
243                 $scope.editMode = false;
244             }
245             $scope.removeErrors();
246             $scope.isValidDate($scope.startDate, "startDate");
247             if($scope.errorMessage<=0) {
248                 $scope.start_date =
$scope.translateToDateObject($scope.startDate, $scope.startHour,
$scope.startMin, ".");
249                 if ($scope.endDate !== undefined, $scope.useDate) {
250                     $scope.isValidDate($scope.endDate, "endDate");
251                     $scope.end_date =
$scope.translateToDateObject($scope.endDate, $scope.endHour,
$scope.endMin, ".");
252                 } else {
253                     $scope.end_date = "";
254                 }
255             }
256
257             /*This checks that "lecture code"-field is not empty.*/
258             if ($scope.lectureCode === "") {
259                 $scope.errorize("lCode", "Lecture name must be
entered!");
260             }
261
262             /*This checks that either "Use date" or "Duration" is
chosen for ending time.*/
263             if ($scope.dateCheck === false && $scope.dueCheck ===
false) {
264                 $scope.errorize("endInfo", "A date or duration must
be chosen.");
265             }
266             /*Checks that hours in starting and ending time are
between 0 and 23.
267             Checks that minutes in starting and ending time are
between 0 and 59*/
268             $scope.isValidHour($scope.startHour, "startHour");
269             $scope.isValidMinute($scope.startMin, "startMin");
270
271             if ($scope.start_date !== undefined) {
272                 var now_hours = date.getHours();
273                 var now_minutes = date.getMinutes();
274                 var now_date_object =
$scope.translateToDateObject($scope.dateObjectToString(date, false),
now_hours, now_minutes, "-");
275                 var lecture_starting_in_past = $scope.start_date -
now_date_object < 0;
276                 var lecture_ending_in_past;
277
278                 /* Checks that are run if end date is used*/
279                 if ($scope.useDate && $scope.end_date !==
undefined) {
280                     $scope.isValidHour($scope.endHour, "endHour");
281                     $scope.isValidMinute($scope.endMin, "endMin");
282                     if ($scope.end_date - $scope.start_date <
120000) {
283                         $scope.errorize("endDateDiv", "Lecture has

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to last at least two minutes.");
284         }
285         $scope.endDateForDB =
$scope.dateObjectToString($scope.end_date, true);
286     }
287
288     /* Check that are run if duration is used. */
289     if ($scope.useDuration) {
290         if ($scope.durationHour === "") {
291             $scope.durationHour = "00";
292         }
293         if ($scope.durationMin === "") {
294             $scope.durationMin = "00";
295         }
296         $scope.isPositiveNumber($scope.durationHour,
"durationHour");
297         $scope.isPositiveNumber($scope.durationMin,
"durationMin");
298         if ($scope.durationHour.length <= 0 &&
$scope.durationMin.length <= 0) {
299             $scope.errorize("durationDiv", "Please give
a duration.");
300         }
301         $scope.end_date = new
Date($scope.start_date.getTime());
302
$scope.end_date.setHours($scope.start_date.getHours() +
parseInt($scope.durationHour));
303
$scope.end_date.setMinutes($scope.start_date.getMinutes() +
parseInt($scope.durationMin));
304         if ($scope.end_date - $scope.start_date <
120000) {
305             $scope.errorize("durationDiv", "Lecture has
to last at least two minutes.");
306         }
307         $scope.endDateForDB =
$scope.dateObjectToString($scope.end_date, true);
308     }
309     var alert_message = "";
310     lecture_ending_in_past = $scope.end_date -
now_date_object <= 0;
311     /* Confirmations if lecture starts and/or ends
before the current date */
312     if (lecture_starting_in_past && !$scope.editMode) {
313         alert_message += "Are you sure you want the
lecture to start before now? ";
314     }
315     if (lecture_ending_in_past && !$scope.editMode) {
316         alert_message += "Are you sure that the lecture
ends in the past or now and will not run?";
317     }
318     $window.console.log($scope.error_message.length);
319     if (alert_message !== "" &&
$scope.error_message.length <= 0) {
320         if (!$window.confirm(alert_message)) {
321             if (lecture_starting_in_past) {
322                 $scope.errorize("startInfo", "Please
select another date and time.");
323             }
324             if (lecture_ending_in_past) {

```

```

325             $scope.errorize("endInfo", "Please
select another date or duration.");
326         }
327     }
328 }
329 }
330 /* If no errors save the lecture to the database */
331 if ($scope.error_message <= 0) {
332     if($scope.earlyJoining){
333         $scope.start_date = new Date($scope.start_date
- 900000); // adds 15 minutes
334     }
335     $scope.startDateForDB =
$scope.dateObjectToString($scope.start_date, true);
336     $http({
337         url: '/createLecture',
338         method: 'POST',
339         params: {
340             'lecture_id': $scope.lectureId,
341             'doc_id': $scope.docId,
342             'lecture_code': $scope.lectureCode,
343             'password': $scope.password,
344             'start_date': $scope.startDateForDB,
345             'end_date': $scope.endDateForDB
346         }
347     })
348     .success(function (answer) {
349         if($scope.editMode) {
350             $window.console.log("Lecture " +
answer.lectureId + " updated.");
351         }
352         else {
353             $window.console.log("Lecture created: "
+ answer.lectureId);
354         }
355         $scope.$parent.useWall = true;
356         $scope.$parent.useAnswers = true;
357         $scope.clearForm();
358         $scope.$emit("closeLectureForm", true);
359     })
360     .error(function (answer) {
361         $scope.error_message += answer.error;
362         $window.console.log(answer);
363     });
364 }
365 };
366
367 /**
368  * Changes the border of the element to red.
369  * @param div_val The ID of the input field so user can be
notified of the error.
370  * @param error_text Error text that will be printed if the
error occurs.
371  * @memberof module:createLectureCtrl
372  */
373 $scope.errorize = function (div_val, error_text) {
374     angular.element("#" + div_val).css('border', "1px solid
red");
375     if (error_text.length > 0) {
376         $scope.error_message += error_text + "<br />";
377     }

```

```

378     };
379
380     /**
381     * Calls defInputStyle for all the form elements.
382     * @memberof module:createLectureCtrl
383     */
384     $scope.removeErrors = function () {
385         $scope.error_message = "";
386
387         var elementsToRemoveErrorsFrom = [
388             "lCode",
389             "startDate",
390             "startHour",
391             "startMin",
392             "startInfo",
393             "endInfo",
394             "endDate",
395             "endHour",
396             "endMin",
397             "endDateDiv",
398             "durationDiv",
399             "durationHour",
400             "durationMin"
401         ];
402         for (var i = 0; i < elementsToRemoveErrorsFrom.length;
i++) {
403             if (elementsToRemoveErrorsFrom[i] !== undefined) {
404
405                 $scope.defInputStyle(elementsToRemoveErrorsFrom[i]);
406             }
407         };
408
409         /**
410         * Resets all the values of the form.
411         * @memberof module:createLectureCtrl
412         */
413         $scope.clearForm = function () {
414             $scope.lectureCode = "";
415             $scope.password = "";
416             $scope.startDate = "";
417             $scope.endDate = "";
418             $scope.startHour = "";
419             $scope.startMin = "";
420             $scope.durationMin = "";
421             $scope.durationHour = "";
422             $scope.endHour = "";
423             $scope.endMin = "";
424             $scope.showLectureCreation = false;
425             $scope.removeErrors();
426             $scope.useDate = false;
427             $scope.useDuration = true;
428             $scope.dateChosen = false;
429             $scope.durationChosen = false;
430             $scope.dateCheck = false;
431             $scope.lectureId = null;
432         };
433
434         /**
435         * Function for adding preceding zeroes to a number to make
it of desired length.

```

```

436     * @param number Number to be padded.
437     * @param size How long should the number be.
438     * @returns {string} Returns the number in the padded
length.
439     * @memberof module:createLectureCtrl
440     */
441     $scope.leftPadder = function (number, size) {
442         var paddedNumber = "" + number;
443         var len = paddedNumber.length;
444         while (len < size) {
445             paddedNumber = "0" + paddedNumber;
446             len++;
447         }
448         return paddedNumber;
449     };
450
451     /**
452     * Function for cancelling the lecture creation.
453     * @memberof module:createLectureCtrl
454     */
455     $scope.cancelCreation = function () {
456         $scope.editMode = false;
457         $scope.$emit("closeLectureForm");
458         $scope.clearForm();
459     };
460 }
461 ]);

```

File: tulostettavat/static/scripts/directives/dynamicAnswerSheet.js

```

1  /**
2  * Created by localadmin on 25.5.2015.
3  * Directive for dynamic answer sheet. Sheet to answer lecture
questions.
4  * @module dynamicAnswerSheet
5  * @author Matias Berg
6  * @author Bek Eljurkaev
7  * @author Minna Lehtomäki
8  * @author Juhani Sihvonen
9  * @author Hannu Viinikainen
10 * @licence MIT
11 * @copyright 2015 Timppa project authors
12 */
13
14 var angular;
15
16 var timApp = angular.module('timApp');
17 timApp.directive('dynamicAnswerSheet', ['$interval', '$compile',
'$rootScope', function ($interval, $compile, $rootScope) {
18     "use strict";
19     return {
20         restrict: 'E',
21         replace: "true",
22         scope: {
23             control: '='
24         },
25         transclude: true,
26         link: function ($scope, $element) {

```



```

27     var promise;
28     var timeLeft;
29     var barFilled;
30     $scope.internalControl = $scope.control || {};
31     $scope.internalControl.createAnswer = function () {
32         $scope.json = $scope.$parent.questionJson;
33         var htmlSheet = "<div class = 'answerSheet'>";
34         if ($scope.json.TYPE !== "true-false") {
35             htmlSheet += "<h2>" + $scope.json.QUESTION +
"<h2>";
36         }
37         if ($scope.json.TIMELIMIT !== "") {
38             htmlSheet += "<progress value='0' max='" +
$scope.json.TIMELIMIT + "' id='progressBar'>";
39             htmlSheet += "</progress>";
40             htmlSheet += "<span id='progressLabel'>" +
$scope.json.TIMELIMIT + "</span>";
41         }
42
43         htmlSheet += "<table id='answer-sheet-table'>";
44
45         if ($scope.json.TYPE === "true-false") {
46             $scope.json.DATA.HEADERS[0] = {"type": "header",
"id": 0, "text": "True"};
47             $scope.json.DATA.HEADERS[1] = {"type": "header",
"id": 1, "text": "False"};
48         }
49
50         if ($scope.json.DATA.HEADERS.length > 0 &&
!($scope.json.DATA.HEADERS[0].text === "" &&
$scope.json.DATA.HEADERS.length === 1)) {
51             htmlSheet += "<tr>";
52             if($scope.json.DATA.HEADERS.length > 1) {
53                 htmlSheet += "<th></th>";
54             }
55             angular.forEach($scope.json.DATA.HEADERS,
function (header) {
56                 htmlSheet += "<th class='answer-button'>" +
header.text + "</th>";
57             });
58             htmlSheet += "</tr>";
59         }
60
61         angular.forEach($scope.json.DATA.ROWS, function
(row) {
62             htmlSheet += "<tr>";
63             if ($scope.json.TYPE === "matrix" ||
$scope.json.TYPE === "true-false") {
64                 if (row.text.length >= 1) {
65                     htmlSheet += "<td>" + row.text +
"</td>";
66                 }
67             }
68             var header = 0;
69             //TODO: Needs correct JSON to be made better way
70             for (var i = 0; i < row.COLUMNS.length; i++) {
71                 var group;
72                 if ($scope.json.TYPE === "matrix" ||
$scope.json.TYPE === "true-false") {
73                     if (row.COLUMNS[i].answerFieldType ===
"text") {

```

```

74             group = "group" + i;
75             htmlSheet += "<td><label> <textarea
id='textarea-answer' name='" + group + "'"
76             if($scope.json.DATA.HEADERS[0].text
=== "" && $scope.json.DATA.HEADERS.length === 1 &&
$scope.json.DATA.ROWS.length ===1) {
77                 htmlSheet +=
"style='height:200px'";
78             }
79             htmlSheet +=
"></textarea></label></td>";
80             header++;
81         } else {
82             group = "group" +
row.text.replace(/[^a-zA-Z0-9]/g, "");
83             htmlSheet += "<td class='answer-
button'><label> <input type='" + row.COLUMNS[i].answerFieldType + '"
name='" + group + "'" +
84                 " value='" +
$scope.json.DATA.HEADERS[header].text + "'" +
85                 "></label></td>";
86             header++;
87         }
88     } else {
89         group = "group" + row.type.replace(/[^a-
zA-Z0-9]/g, "");
90         htmlSheet += "<td class='answer-
button'><label> <input type='" + row.COLUMNS[i].answerFieldType + '"
name='" + group + "'" +
91             " value='" + row.text + "'" +
92             ">" + row.text + "</label></td>";
93     }
94 }
95 htmlSheet += "</tr>";
96 });
97
98
99 htmlSheet += "</div>";
100 $element.append(htmlSheet);
101 $compile($scope);
102
103 var fakeTime = $scope.json.TIMELIMIT * 1000;
104 timeLeft = $scope.json.TIMELIMIT;
105 barFilled = 0;
106 var timeBetween = 100;
107 var intervalTimes = fakeTime / timeBetween;
108 $scope.valChange = fakeTime / 1000 / intervalTimes;
109 $scope.progressElem = $("#progressBar");
110 $scope.progressText = $("#progressLabel");
111 $scope.start = function () {
112     promise =
$interval($scope.internalControl.updateBar, timeBetween, intervalTimes);
113     };
114     $scope.start();
115
116 }
117 ;
118
119 /**
120  * FILL WITH SUITABLE TEXT
121  * @memberof module:dynamicAnswerSheet

```

```

122         */
123         $scope.internalControl.updateBar = function () {
124             //TODO: Problem with inactive tab.
125             timeLeft -= $scope.valChange;
126             barFilled += $scope.valChange;
127             $scope.progressElem.attr("value", (barFilled));
128
129             $scope.progressText.text(timeLeft.toFixed(0) + "
s");
130             if (Math.abs(barFilled -
$scope.progressElem.attr("max")) < 0.02) {
131
132                 if (!$scope.$parent.isLecturer) {
133                     $scope.internalControl.answerToQuestion();
134                 } else {
135                     clearInterval(promise);
136                     $scope.progressText.text("Time's up");
137                 }
138             }
139
140         };
141
142         /**
143         * FILL WITH SUITABLE TEXT
144         * @memberof module:dynamicAnswerSheet
145         */
146         $scope.internalControl.answerToQuestion = function () {
147             var answers = [];
148             $interval.cancel(promise);
149             if (angular.isDefined($scope.json.DATA.ROWS)) {
150                 var groupName = "";
151                 if ($scope.json.TYPE === "matrix" ||
$scope.json.TYPE === "true-false") {
152                     for (var i = 0; i <
$scope.json.DATA.ROWS.length; i++) {
153                         var answer = [];
154                         var matrixInputs;
155                         groupName = "group" +
$scope.json.DATA.ROWS[i].text.replace(/[^a-zA-Z0-9]/g, '');
156
157                         if
($scope.json.DATA.ROWS[0].COLUMNS[0].answerFieldType === "text") {
158                             matrixInputs = $('textarea[name='
+"group"+i + ']');
159                             for (var c = 0; c <
matrixInputs.length; c++) {
160                                 answer.push(matrixInputs[c].value);
161                             }
162
163                             answers.push(answer);
164                             continue;
165                         }
166
167                         matrixInputs = $('input[name=' +
groupName + ']:checked');
168
169                         for (var k = 0; k <
matrixInputs.length; k++) {
170                             answer.push(matrixInputs[k].value);
171                         }

```

```

172         if (matrixInputs.length <= 0) {
173             answer.push("undefined");
174         }
175         answers.push(answer);
176     }
177 }
178 else {
179     groupName = "group" +
$scope.json.DATA.ROWS[0].type.replace(/[^a-zA-Z0-9]/g, '');
180     var checkedInputs = $('input[name=' +
groupName + ']:checked');
181     for (var j = 0; j < checkedInputs.length;
j++) {
182         answers.push(checkedInputs[j].value);
183     }
184
185     if (checkedInputs.length <= 0) {
186         answers.push("undefined");
187     }
188 }
189 }
190
191 if (angular.isDefined($scope.json.DATA.COLUMNS)) {
192     angular.forEach($scope.json.DATA.COLUMNS,
function (column) {
193         var groupName = "group" +
column.Value.replace(/ /g, '');
194         answers.push($('input[name=' + groupName +
']:checked').val());
195     });
196 }
197
198 $element.empty();
199 $scope.$emit('answerToQuestion', {answer: answers,
questionId: $scope.$parent.questionId});
200     clearInterval(promise);
201 };
202
203 /**
204  * FILL WITH SUITABLE TEXT
205  * @memberof module:dynamicAnswerSheet
206  */
207 $scope.internalControl.closeQuestion = function () {
208     clearInterval(promise);
209     $element.empty();
210     $scope.$emit('closeQuestion');
211     $rootScope.$broadcast('closeAnswerSheetForGood');
212 };
213 }
214
215 };
216 }
217 ])
218 ;

```

File: tulostettavat/static/scripts/directives/popUpDialog.js

1 /**

```

2  * FILL WITH SUITABLE TEXT
3  * @module popUpDialog
4  * @author Matias Berg
5  * @author Bek Eljurkaev
6  * @author Minna Lehtomäki
7  * @author Juhani Sihvonen
8  * @author Hannu Viinikainen
9  * @licence MIT
10 * @copyright 2015 Timppa project authors
11 */
12
13 timApp.directive('popUpDialog', function () {
14     var toDragOrNot = function(){
15         var width = (window.innerWidth > 0) ? window.innerWidth :
screen.width;
16         if(width > 500)
17             {
18                 return "tim-draggable-fixed";
19             }
20     };
21     return {
22         restrict: 'E',
23         template: "<div class='pop-up' ng-show='show'
id='popUpBack'>" +
24             "<div class='pop-up-overlay'></div> " +
25             "<div class='pop-up-dialog' " + toDragOrNot() + " ng-
mousedown='checkDown($event)' ng-mouseup='checkUp($event)'
style='top:0px;'>" +
26             "<div class='pop-up-dialog-content' ng-transclude></div>" +
27             "</div>" +
28             "</div>",
29
30         scope: {
31             show: '='
32         },
33         replace: true,
34         transclude: true,
35
36         link: function ($scope, $element) {
37
38             /**
39              * FILL WITH SUITABLE TEXT
40              * @memberof module:popUpDialog
41              * @param e
42              */
43             $scope.checkDown = function (e) {
44                 $scope.mouseDownX = e.clientX;
45                 $scope.mouseDownY = e.clientY;
46                 var window = $element.find("popUpBack");
47
48                 window.context.style.position = "absolute";
49                 window.context.style.bottom = 'auto';
50
51             };
52
53             /**
54              * FILL WITH SUITABLE TEXT
55              * @memberof module:popUpDialog
56              */
57             $scope.checkUp = function () {
58                 var window = $element.find("popUpBack");

```

```

59         window.context.style.position = "fixed";
60     };
61 }
62
63     };
64 });

```

File: tulostettavat/static/scripts/directives/showChartDirective.js

```

1  /**
2  * Created by hajoviin on 13.5.2015.
3  * FILL WITH SUITABLE TEXT
4  * @module showChartDirective
5  * @author Matias Berg
6  * @author Bek Eljurkaev
7  * @author Minna Lehtomäki
8  * @author Juhani Sihvonen
9  * @author Hannu Viinikainen
10 * @licence MIT
11 * @copyright 2015 Timppa project authors
12 */
13
14
15
16 /*global $:false */
17 /*global Chart:false */
18 var angular;
19
20 var timApp = angular.module('timApp');
21 timApp.directive('showChartDirective', ['$compile', function
($compile) {
22     "use strict";
23     return {
24         restrict: 'E',
25         scope: {
26             canvas: '@',
27             control: '='
28         },
29         link: function ($scope, $element) {
30             $scope.internalControl = $scope.control || {};
31             $scope.canvasId = "#" + $scope.canvas || "";
32             $scope.isText = false;
33
34             //TODO: If more than 12 choices this will break.
35             Refactor to better format.
36             var basicSets = [
37                 {
38                     label: "Answers",
39                     fillColor: "rgba(0,220,0,0.2)",
40                     strokeColor: "rgba(0,220,0,1)",
41                     pointColor: "rgba(0,220,0,1)",
42                     pointStrokeColor: "#fff",
43                     pointHighlightFill: "#fff",
44                     pointHighlightStroke: "rgba(0,220,0,1)",
45                     data: []
46                 },
47                 {
48                     label: "Answers",

```



```

109         fillColor: "rgba(220,165,0,0.2)",
110         strokeColor: "rgba(220,165,0,1)",
111         pointColor: "rgba(220,165,0,1)",
112         pointStrokeColor: "#fff",
113         pointHighlightFill: "#fff",
114         pointHighlightStroke: "rgba(220,165,0,1)",
115         data: []
116     },
117     {
118         label: "Answers",
119         fillColor: "rgba(0,165,220,0.2)",
120         strokeColor: "rgba(220,165,0,1)",
121         pointColor: "rgba(220,165,0,1)",
122         pointStrokeColor: "#fff",
123         pointHighlightFill: "#fff",
124         pointHighlightStroke: "rgba(220,165,0,1)",
125         data: []
126     },
127     {
128         label: "Answers",
129         fillColor: "rgba(220,0,165,0.2)",
130         strokeColor: "rgba(220,0,165,1)",
131         pointColor: "rgba(220,0,165,1)",
132         pointStrokeColor: "#fff",
133         pointHighlightFill: "#fff",
134         pointHighlightStroke: "rgba(220,0,165,1)",
135         data: []
136     },
137     {
138         label: "Answers",
139         fillColor: "rgba(30,0,75,0.2)",
140         strokeColor: "rgba(30,0,75,1)",
141         pointColor: "rgba(30,0,75,1)",
142         pointStrokeColor: "#fff",
143         pointHighlightFill: "#fff",
144         pointHighlightStroke: "rgba(30,0,75,1)",
145         data: []
146     },
147     {
148         label: "Answers",
149         fillColor: "rgba(75,75,180,0.2)",
150         strokeColor: "rgba(75,75,180,1)",
151         pointColor: "rgba(75,75,180,1)",
152         pointStrokeColor: "#fff",
153         pointHighlightFill: "#fff",
154         pointHighlightStroke: "rgba(75,75,180,1)",
155         data: []
156     }
157 ];
158
159 /**
160  * FILL WITH SUITABLE TEXT
161  * @memberof module:showChartDirective
162  * @param question FILL WITH SUITABLE TEXT
163  */
164 $scope.internalControl.createChart = function
(question) {
165     $scope.ctx =
$(($scope.canvasId).get(0).getContext("2d"));
166     $scope.x = 10;
167     $scope.y = 20;

```



```

168         if (typeof
question.DATA.ROWS[0].COLUMNS[0].answerFieldType !== "undefined" &&
question.DATA.ROWS[0].COLUMNS[0].answerFieldType === "text") {
169             $scope.isText = true;
170             return;
171         }
172         $scope.isText = false;
173         var labels = [];
174         var emptyData = [];
175         if (angular.isDefined(question.DATA.ROWS)) {
176             angular.forEach(question.DATA.ROWS, function
(row) {
177                 labels.push(row.text);
178                 emptyData.push(0);
179             });
180         }
181
182         if (angular.isDefined(question.DATA.COLUMNS)) {
183             angular.forEach(question.DATA.COLUMNS, function
(column) {
184                 angular.forEach(column.ROWS, function (row)
{
185                     labels.push(row.Value);
186                     emptyData.push(0);
187                 });
188             });
189         }
190
191         labels.push("No answer");
192         emptyData.push(0);
193
194
195         var usedDataSets = [];
196
197
198         if (question.TYPE === "true-false") {
199             question.DATA.HEADERS[0] = {"type": "header",
"ID": 0, "text": "True"};
200             question.DATA.HEADERS[1] = {"type": "header",
"ID": 1, "text": "False"};
201         }
202
203         if (question.TYPE === "matrix" || question.TYPE ===
"true-false") {
204             for (var i = 0; i <
question.DATA.ROWS[0].COLUMNS.length; i++) {
205                 usedDataSets.push(basicSets[i]);
206                 usedDataSets[i].data = emptyData;
207             }
208
209             for (i = 0; i < question.DATA.HEADERS.length;
i++) {
210                 usedDataSets[i].label =
question.DATA.HEADERS[i].text;
211             }
212         } else {
213             usedDataSets.push(basicSets[0]);
214             usedDataSets[0].data = emptyData;
215         }
216
217

```

```

218         var data = {
219             labels: labels,
220             datasets: usedDataSets
221         };
222
223         $scope.answerChart = new
Chart($scope.ctx).Bar(data, {
224             multiTooltipTemplate: "<%= datasetLabel %> -
<%= value %>"
225         });
226
227         $compile($scope);
228     };
229
230     /**
231     * FILL WITH SUITABLE TEXT
232     * @memberof module:showChartDirective
233     * @param answers FILL WITH SUITABLE TEXT
234     */
235     $scope.internalControl.addAnswer = function (answers) {
236         if (!angular.isDefined(answers)) {
237             return;
238         }
239         $scope.ctx.font = "20px Georgia";
240
241         for (var answerersIndex = 0; answerersIndex <
answers.length; answerersIndex++) {
242             var onePersonAnswers =
answers[answerersIndex].answer.split("|");
243             var datasets;
244             if (!$scope.isText) {
245                 datasets = $scope.answerChart.datasets;
246             }
247             for (var a = 0; a < onePersonAnswers.length;
a++) {
248                 var singleAnswers =
onePersonAnswers[a].split(',');
249                 for (var sa = 0; sa < singleAnswers.length;
sa++) {
250                     var singleAnswer = singleAnswers[sa];
251
252                     if ($scope.isText) {
253                         $scope.ctx.fillText(singleAnswer,
$scope.x, $scope.y);
254                         $scope.y += 20;
255                         continue;
256                     }
257                     if (datasets.length === 1) {
258                         for (var b = 0; b <
datasets[0].bars.length; b++) {
259                             if (datasets[0].bars[b].label
=== singleAnswer) {
260                                 datasets[0].bars[b].value
+= 1;
261                             }
262                         }
263                     } else {
264                         for (var d = 0; d <
datasets.length; d++) {
265                             if (datasets[d].label ===
singleAnswer) {

```

```

266                                     datasets[d].bars[a].value
+= 1;
267                                     }
268                                 }
269                             }
270
271                             if (singleAnswer === "undefined") {
272                                 var helperBars =
$scope.answerChart.datasets[0].bars;
273                                 helperBars[helperBars.length -
1].value += 1;
274                             }
275                         }
276                     }
277                 }
278
279                 if (!$scope.isText) {
280                     $scope.answerChart.update();
281                 }
282
283             };
284
285             /**
286              * FILL WITH SUITABLE TEXT
287              * @memberof module:showChartDirective
288              */
289             $scope.internalControl.close = function () {
290                 $scope.ctx.clearRect(0, 0,
$($scope.canvasId)[0].width, $($scope.canvasId)[0].height);
291                 if (typeof $scope.answerChart !== "undefined") {
292                     $scope.answerChart.destroy();
293                 }
294                 $($scope.canvasId).remove(); // this is my <canvas>
element
295                 $('#chartDiv').append('<canvas id=' +
$scope.canvasId.substring(1) + ' width="400" height="300"><canvas>');
296                 $element.empty();
297             };
298         }
299     };
300 }])
301 ;

```

File: tulostettavat/static/scripts/lectureController.js

```

1  /**
2   * Created by hajoviin on 24.2.2015.
3   * Contoller that handles lectures.
4   * @module lectureController
5   * @author Matias Berg
6   * @author Bek Eljurkaev
7   * @author Minna Lehtomäki
8   * @author Juhani Sihvonen
9   * @author Hannu Viinikainen
10  * @licence MIT
11  * @copyright 2015 Timppa project authors
12  */
13

```

```

14 var angular;
15
16 var timApp = angular.module('timApp');
17
18 //TODO: Painike, josta voisi hakea kysymyksiä.
19 //TODO: Button, to get questions and wall.
20 timApp.controller("LectureController", ['$scope', '$controller',
"$http", "$window", '$rootScope', '$timeout',
21
22     function ($scope, controller, http, $window, $rootScope,
$scope, $timeout) {
23         "use strict";
24         $scope.lectureStartTime = "";
25         $scope.lectureEndTime = "";
26         $scope.lectureName = "";
27         $scope.msg = "";
28         $scope.newMsg = "";
29         $scope.wallName = "Wall";
30         $scope.messageName = true;
31         $scope.messageTime = true;
32         $scope.newMessagesAmount = 0;
33         $scope.newMessagesAmountText = "";
34         $scope.showPoll = true;
35         $scope.polling = true;
36         $scope.requestOnTheWay = false;
37         $scope.showWall = false;
38         $scope.canStart = true;
39         $scope.canStop = false;
40         $scope.showLectureCreation = false;
41         $scope.lectures = [];
42         $scope.futureLectures = [];
43         $scope.futureLecture = "";
44         $scope.chosenLecture = "";
45         $scope.passwordQuess = "";
46         $scope.pollingLectures = [];
47         $scope.useDate = false;
48         $scope.useDuration = false;
49         $scope.dateChosen = false;
50         $scope.durationChosen = false;
51         $scope.durationHour = "";
52         $scope.durationMin = "";
53         $scope.isLecturer = false;
54         $scope.lectureId = null;
55         $scope.showAnswerWindow = false;
56         $scope.showStudentAnswers = false;
57         $scope.studentTable = [];
58         $scope.lecturerTable = [];
59         $scope.gettingAnswers = false;
60         $scope.answeredToLectureEnding = false;
61         $scope.showLectureEnding = false;
62         $scope.extendTime = "15";
63         $scope.lectureEnded = false;
64         $scope.showLectureForm = false;
65         $scope.showLectureOptions = false;
66         $scope.useQuestions = true;
67         $scope.useWall = true;
68         $scope.useAnswers = true;
69         $scope.wallMessages = [];
70
71         var header = $('#header');
72         header.css("display", "none");

```

```

73
74     var wall = $('#wall');
75     var htmlMessageList = $('#wallMessageList');
76
77     /**
78      * Makes http request to check if the current user is in
lecture.
79      * @memberof module:lectureController
80      */
81     $scope.checkIfInLecture = function () {
82         http({
83             url: '/checkLecture',
84             method: 'GET',
85             params: {'doc_id': $scope.docId, 'buster': new
Date().getTime()}}
86         })
87         .success(function (answer) {
88             if (answer.isInLecture) {
89                 $scope.showLectureView(answer);
90             } else {
91                 $scope.showBasicView(answer);
92             }
93         });
94     };
95
96     /**
97     Checks if the user is in lecture when loading page.
98     */
99     $scope.checkIfInLecture();
100
101
102     /**
103     Listener of askQuestion event. Opens the question view and
answer view for the lecturer.
104     */
105     $scope.$on("askQuestion", function (event, data) {
106         $scope.showStudentAnswers = true;
107         if ($scope.useAnswers) {
108             // Because of dynamic creation needs to wait lms to
ensure that the directice is made(maybe?)
109             $timeout(function () {
110                 $rootScope.$broadcast("createChart",
data.json);
111             }, 1);
112
113             var answer = {"questionId": data.questionId};
114             $scope.getLectureAnswers(answer);
115         }
116
117         $rootScope.$broadcast("setQuestionJson", {
118             questionJson: data.json,
119             questionId: data.questionId,
120             isLecturer: $scope.isLecturer
121         });
122         $scope.showAnswerWindow = true;
123     });
124
125     /**
126     Event listener for getLectureId. Emits the lectureId back
127     */
128     $scope.$on('getLectureId', function () {

```

```

129         $scope.$emit('postLectureId', $scope.lectureId);
130     });
131
132     /*
133     Event listener for getLecture. Emits the boolean value if
the user is in lecture
134     */
135     $scope.$on('getInLecture', function () {
136         $scope.$emit('postInLecture', $scope.inLecture);
137     });
138
139     /*
140     Event listener for getIsLecturer event. Emits value if the
user is lecturer
141     */
142     $scope.$on('getIsLecturer', function () {
143         $scope.$emit('postIsLecturer', $scope.isLecturer);
144     });
145
146     $scope.$on('showAnswers', function (x) {
147         $scope.showStudentAnswers = x;
148     });
149
150     /*
151     Event listener for closeLectureForm. Closes lecture form.
152     */
153     $scope.$on('closeLectureForm', function (event, showWall) {
154         $scope.showLectureForm = false;
155         if (showWall) {
156             $scope.useWall = true;
157         }
158         $scope.checkIfInLecture();
159     });
160
161     /*
162     Event listener for closeQuestion. Closes question pop-up.
163     */
164     $scope.$on('closeQuestion', function () {
165         $scope.showAnswerWindow = false;
166     });
167
168
169     /*
170     Event listener for answerToQuestion. Closes the answer pop-
up and sends answer to server.
171     */
172     $scope.$on("answerToQuestion", function (event, answer) {
173         $scope.showAnswerWindow = false;
174         var mark = "";
175         var answerString = "";
176         angular.forEach(answer.answer, function (singleAnswer)
{
177             answerString += mark + singleAnswer;
178             mark = "|";
179         });
180
181         http({
182             url: '/answerToQuestion',
183             method: 'PUT',
184             params: {
185                 'question_id': answer.questionId,

```

```

186         'lecture_id': $scope.lectureId,
187         'answers': answerString,
188         'buster': new Date().getTime()
189     }
190 })
191     .success(function (answer) {
192         if(angular.isDefined(answer.questionLate)) {
193             $window.alert(answer.questionLate);
194         }
195     })
196     .error(function () {
197         $window.console.log("Failed to answer to
question");
198     });
199 });
200
201
202     /*
203     Event window for closeAnswerShow. Closes pop-up to show
answers and stops getting more of them.
204     */
205     //TODO: Also send event to server to remove getting answers
for this question.
206     $scope.$on("closeAnswerShow", function () {
207         $scope.showStudentAnswers = false;
208         $scope.gettingAnswers = false;
209     });
210
211     /**
212     * Depending on what users wants to see on the wall, makes
the msg to correct form. Able to show the
213     * name of the sender, time and message. Sender and time
are optional.
214     * @memberof module:lectureController
215     */
216     $scope.showInfo = function () {
217         $scope.msg = "";
218         var i = 0;
219         if ($scope.messageName && $scope.messageTime) {
220             for (i = 0; i < $scope.wallMessages.length; i++) {
221                 $scope.msg += $scope.wallMessages[i].sender;
222                 $scope.msg += " <" +
$scope.wallMessages[i].time + ">: ";
223                 $scope.msg += $scope.wallMessages[i].message +
"\r\n";
224             }
225         }
226
227         if (!$scope.messageName && $scope.messageTime) {
228             for (i = 0; i < $scope.wallMessages.length; i++) {
229                 $scope.msg += " <" +
$scope.wallMessages[i].time + ">: ";
230                 $scope.msg += $scope.wallMessages[i].message +
"\r\n";
231             }
232         }
233
234         if ($scope.messageName && !$scope.messageTime) {
235             for (i = 0; i < $scope.wallMessages.length; i++) {
236                 $scope.msg += $scope.wallMessages[i].sender +
": ";

```

```

237             $scope.msg += $scope.wallMessages[i].message +
"\r\n";
238         }
239     }
240
241     if (!$scope.messageName && !$scope.messageTime) {
242         for (i = 0; i < $scope.wallMessages.length; i++) {
243             $scope.msg += ">" +
$scope.wallMessages[i].message + "\r\n";
244         }
245     }
246 };
247
248 /**
249  * Clears the password input when changing the lecture from
current lectures list.
250  * @memberof module:lectureController
251  */
252 $scope.clearChange = function () {
253     $scope.passwordQuess = "";
254 };
255
256 /**
257  * Puts chosen lecture options to use.
258  * @memberof module:lectureController
259  * @param useQuestions Whether or not to display questions?
260  * @param useWall Whether or not to display the wall?
261  */
262 $scope.useOptions = function (useQuestions, useWall) {
263     $scope.showLectureView($scope.lectureAnswer);
264     $scope.useWall = useWall;
265     $scope.useQuestions = useQuestions;
266     $scope.showLectureOptions = false;
267
268 };
269
270 /**
271  * Ask lecture options from students that are coming to
lecture.
272  * @memberof module:lectureController
273  */
274 $scope.lectureOptions = function () {
275     if (!$scope.isLecturer) {
276         $scope.showLectureOptions = true;
277     }
278     $scope.joinLecture();
279 };
280
281 /**
282  * Method to join selected lecture. Checks that lecture is
chosen and sends http request to server.
283  * @memberof module:lectureController
284  * @param name Name of the lecture to be joined.
285  */
286 $scope.joinLecture = function (name, code_required) {
287     if(code_required) $scope.passwordQuess =
$window.prompt("Please enter a password:", "");
288     if ($scope.chosenLecture === "" && name === "") {
289         $window.alert("Choose lecture to join");
290         return;
291     }

```



```

292
293     var lectureName = "";
294     if (angular.isDefined(name)) {
295         lectureName = name;
296         $('#currentList').slideToggle();
297     } else {
298         lectureName = $scope.chosenLecture.lecture_code;
299     }
300
301     http({
302         url: '/joinLecture',
303         method: 'POST',
304         params: {
305             'doc_id': $scope.docId,
306             'lecture_code': lectureName,
307             'password_guess': $scope.passwordGuess
308         }
309     })
310     .success(function (answer) {
311         $scope.passwordGuess = "";
312         var input = $("#passwordInput");
313         if (!answer.correctPassword) {
314             $window.alert("Wrong access code!");
315         } else {
316             input.removeClass('errorBorder');
317             input.attr("placeholder", "Access code");
318             if ($scope.isLecturer) {
319                 $scope.showLectureView(answer);
320                 $scope.useWall = true;
321                 $scope.useQuestions = true;
322             } else {
323                 $scope.showLectureOptions = true;
324                 $scope.lectureAnswer = answer;
325             }
326         }
327     });
328 };
329
330 /**
331  * Checks where the mouse is when clicking the wall. Sets
332 style to absolute for the draggable directive.
333  * @param e Event of the mouse click.
334  * @memberof module:lectureController
335  */
336 $scope.checkDown = function (e) {
337     $scope.mouseDownX = e.clientX;
338     $scope.mouseDownY = e.clientY;
339     wall.position("absolute");
340     wall.css("bottom", "auto");
341     $scope.wallMoved = true;
342 };
343
344 /**
345  * Checks where th mouse is when releasing the wall. If the
346 mouse hasn't moved enough, closes the wall.
347  * @param e Event of the mouse release.
348  * @memberof module:lectureController
349  */
350 $scope.checkUp = function (e) {
351     var mouseUpX = e.clientX;

```

```

351         var mouseUpY = e.clientY;
352         wall.position("fixed");
353
354         if (Math.abs(Math.sqrt(Math.pow(($scope.mouseDownX -
mouseUpX), 2) + Math.pow(($scope.mouseDownY - mouseUpY), 2))) < 10) {
355             $scope.wallMoved = false;
356         }
357     };
358
359     /**
360     * Hides the wall if the wall hasn't moved.
361     * @memberof module:lectureController
362     */
363     $scope.hideWall = function () {
364         if (!$scope.wallMoved) {
365             $scope.hide();
366         }
367     };
368
369     /**
370     * Toggle the lecture creation form.
371     * @memberof module:lectureController
372     */
373     $scope.toggleLecture = function () {
374         $('#currentList').hide();
375         $('#futureList').hide();
376         $scope.showLectureForm = true;
377         $rootScope.$broadcast("initLectureFormVals");
378     };
379
380     /**
381     * Starts lecture that is in future lecture list.
382     * @memberof module:lectureController
383     */
384     $scope.startFutureLecture = function () {
385         http({
386             url: '/startFutureLecture',
387             method: 'POST',
388             params: {'doc_id': $scope.docId, 'lecture_code':
$scope.futureLecture.lecture_code}
389         })
390         .success(function (answer) {
391             $scope.showLectureView(answer);
392         });
393     };
394
395     /**
396     * Change the usage of wall.
397     * @param wallUsage Whether wall should be displayed or
not.
398     * @memberof module:lectureController
399     */
400     $scope.changeUsingWall = function (wallUsage) {
401         $scope.useWall = wallUsage;
402     };
403
404     /**
405     * Change the usage of getting lecture questions.
406     * @param questionUsage Whether questions should be
displayed or not.
407     * @memberof module:lectureController

```

```

408         */
409         $scope.changeUsingQuestions = function (questionUsage) {
410             $scope.useQuestions = questionUsage;
411         };
412
413         /**
414         * Changes the usage of getting answers from students.
415         * @param answerUsage Whether to get answers from students
or not.
416         * @memberof module:lectureController
417         */
418         $scope.changeUsingAnswers = function (answerUsage) {
419             $scope.useAnswers = answerUsage;
420         };
421
422         /**
423         * Initializes the window to be lecture view a.k.a. the
current user in in lecture.
424         * @param lecture The lecture to be shown.
425         * @memberof module:lectureController
426         */
427         $scope.showLectureView = function (lecture) {
428             $scope.isLecturer = lecture.isLecturer;
429
430             $scope.lectureName = lecture.lectureCode;
431             $scope.wallName = "Wall - " + lecture.lectureCode;
432             if ($scope.wallName.length > 30) {
433                 $scope.wallName = $scope.wallName.substring(0, 30)
+ "...";
434             }
435             $scope.lectureStartTime = "Started: " +
lecture.startTime;
436             $scope.lectureEndTime = "Ends: " + lecture.endTime;
437             $scope.inLecture = true;
438             $scope.lectureId = lecture.lectureId;
439             $scope.polling = true;
440             $scope.msg = "";
441             $scope.showWall = true;
442             $scope.useWall = lecture.useWall;
443             $scope.useQuestions = lecture.useQuestions;
444
445             $scope.getAllMessages();
446
447
448             if ($scope.isLecturer) {
449                 $rootScope.$broadcast("getQuestions");
450                 $scope.canStop = true;
451                 $scope.addPeopleToList(lecture.students,
$scope.studentTable);
452                 $scope.addPeopleToList(lecture.lecturers,
$scope.lecturerTable);
453             }
454         };
455
456         /**
457         * Adds people entities to give list.
458         * @param people name: String, active:String
459         * @param peopleList List of people in the lecture.
460         * @memberof module:lectureController
461         */
462         $scope.addPeopleToList = function (people, peopleList) {

```

```

463         var oldUser = false;
464         for (var i = 0; i < people.length; i++) {
465             for (var index = 0; index < peopleList.length;
index++) {
466                 if (peopleList[index].name === people[i].name)
{
467                     oldUser = true;
468                     peopleList[index].active =
people[i].active;
469                     break;
470                 }
471             }
472
473             if (!oldUser) {
474                 var student = {
475                     name: people[i].name,
476                     active: people[i].active
477                 };
478                 peopleList.push(student);
479             }
480         }
481     };
482
483     /**
484     * Initializes the window to be basic view a.k.a. view
where user is not in lecture.
485     * @param answer The lecture to be processed.
486     * @memberof module:lectureController
487     */
488     $scope.showBasicView = function (answer) {
489
490         $scope.isLecturer = answer.isLecturer;
491         if ($scope.isLecturer) {
492             $rootScope.$broadcast("getQuestions");
493             $scope.canStart = true;
494             $scope.canStop = false;
495         }
496         $scope.wallMessages = [];
497         $scope.useWall = false;
498         $scope.polling = false;
499         $scope.inLecture = false;
500         $scope.lectureId = -1;
501         $scope.lectureName = "Not running";
502         $scope.showStudentAnswers = false;
503         $scope.showAnswerWindow = false;
504         $scope.lecturerTable = [];
505         $scope.studentTable = [];
506         $scope.lectures = [];
507         $scope.futureLectures = [];
508
509
510         var addLecture = true;
511         for( var i = 0; i < answer.lectures.length; i++) {
512             $scope.lectures.push(answer.lectures[i]);
513         }
514
515         for( i = 0; i < answer.futureLectures.length; i++) {
516             $scope.futureLectures.push(answer.futureLectures[i]);
517         }
518

```

```

519         if ($scope.lectures.length > 0) {
520             $scope.chosenLecture = $scope.lectures[0];
521         }
522
523         if ($scope.futureLectures.length > 0) {
524             $scope.futureLecture = $scope.futureLectures[0];
525         }
526     };
527
528     /**
529     * Extends the lecture based on the time selected in pop-up
to extend lecture.
530     * Currently extends to the old lecture ending time. Other
option is to extend
531     * from the current moment(needs to be implemented).
532     * @memberof module:lectureController
533     */
534     $scope.extendLecture = function () {
535         var dateTime = $scope.lectureEndTime.split(" ");
536
537         //TODO: Use javascript date object.
538         var YearMonthDay = dateTime[1].split("-");
539         var endYear = parseInt(YearMonthDay[0]);
540         var endMonth = parseInt(YearMonthDay[1]);
541         var endDay = parseInt(YearMonthDay[2]);
542
543         var hoursMins = dateTime[2].split(":");
544         var endHour = parseInt(hoursMins[0]);
545         var endMinutes = parseInt(hoursMins[1]);
546
547
548         endMinutes += parseInt($scope.extendTime);
549
550         if (endMinutes >= 60) {
551             endHour += 1;
552             endMinutes -= 60;
553             if (endHour >= 24) {
554                 endDay += 1;
555                 endHour -= 24;
556                 switch (endMonth) {
557                     case 1:
558                     case 3:
559                     case 5:
560                     case 7:
561                     case 8:
562                     case 10:
563                     case 12:
564                         if (endDay > 31) {
565                             endDay = 1;
566                             endMonth += 1;
567                         }
568                         break;
569                     case 2:
570                         if (endDay > 28) {
571                             endDay = 1;
572                             endMonth += 1;
573                         }
574                         break;
575                     default:
576                         if (endDay > 30) {
577                             endDay = 1;

```

```

578             endTime += 1;
579         }
580     }
581     if (endTime > 12) {
582         endTime = 1;
583         endYear += 1;
584     }
585 }
586 }
587
588
589     var endTimeDate = endYear + "-" +
$scope.leftPadder(endMonth, 2) + "-" + $scope.leftPadder(endDay, 2) + "
" +
590         $scope.leftPadder(endHour, 2) + ":" +
$scope.leftPadder(endMinutes, 2);
591     $scope.lectureEndTime = "Ends: " + endTimeDate;
592     $scope.showLectureEnding = false;
593     $scope.lectureEnded = false;
594     $scope.answeredToLectureEnding = true;
595
596     http({
597         url: '/extendLecture',
598         method: 'POST',
599         params: {'doc_id': $scope.docId, lecture_id:
$scope.lectureId, new_end_time: endTimeDate}
600     })
601         .success(function () {
602             $scope.answeredToLectureEnding = false;
603             $window.console.log("Lecture extended");
604         })
605         .error(function () {
606             $window.console.log("Failed to delete the
lecture");
607         });
608     };
609
610     /**
611     * Closes the lecture view and sets answered to
lectureEnding to true to prevent multiple questions from this.
612     * @memberof module:lectureController
613     */
614     $scope.continueLecture = function () {
615         $scope.answeredToLectureEnding = true;
616         $scope.showLectureEnding = false;
617     };
618
619     /**
620     * NOT IMPLEMENTED YET
621     * @memberof module:lectureController
622     */
623     $scope.editLecture = function (lecture_code) {
624         $('#currentList').hide();
625         $('#futureList').hide();
626         http({
627             url: '/showLectureInfoGivenName',
628             method: 'GET',
629             params: {'lecture_code': lecture_code, 'doc_id':
$scope.docId}
630         })
631         .success(function(lecture) {

```

```

632             $rootScope.$broadcast("editLecture",
{"lecture_id": lecture.lectureId, "lecture_name": lecture.lectureCode,
"start_date": lecture.lectureStartTime, "end_date":
lecture.lectureEndTime, "password": "", "editMode": true});
633             $scope.showLectureForm = true;
634         })
635         .error(function() {
636             $window.console.log("Failed to fetch
lecture.");
637         });
638     };
639
640     /**
641     * Sends http request to end the lecture.
642     * @memberof module:lectureController
643     */
644     $scope.endLecture = function () {
645         $scope.showLectureEnding = false;
646
647         // TODO: Change to some better confirm dialog.
648         var confirmAnswer = $window.confirm("Do you really want
to end this lecture?");
649         if (confirmAnswer) {
650             http({
651                 url: '/endLecture',
652                 method: 'POST',
653                 params: {'doc_id': $scope.docId, lecture_id:
$scope.lectureId}
654             })
655             .success(function (answer) {
656                 $scope.showBasicView(answer);
657                 $scope.chosenLecture = "";
658                 $scope.msg = "";
659                 $window.console.log("Lecture ended, not
deleted");
660             })
661             .error(function () {
662                 $window.console.log("Failed to delete the
lecture");
663             });
664         }
665     }
666 };
667
668     /**
669     * Sends http request to delete the lecture.
670     * @memberof module:lectureController
671     */
672     $scope.deleteLecture = function () {
673         http({
674             url: '/deleteLecture',
675             method: 'POST',
676             params: {'doc_id': $scope.docId, lecture_id:
$scope.lectureId}
677         })
678         .success(function (answer) {
679             $scope.showBasicView(answer);
680             $scope.lectures.splice($scope.lectureId, 1);
681             $scope.chosenLecture = "";
682             $scope.msg = "";
683             $window.console.log("Lecture deleted");

```

```

684
685         })
686         .error(function () {
687             $window.console.log("Failed to delete the
lecture");
688         });
689     };
690
691     /**
692     * Sends http request to leave the lecture.
693     * @memberof module:lectureController
694     */
695     $scope.leaveLecture = function () {
696         //TODO: better confirm dialog
697         var confirmAnswer = false;
698         if ($scope.isLecturer) {
699             confirmAnswer = $window.confirm("Do you really
want to leave this lecture?");
700         }
701
702         if (!$scope.isLecturer || confirmAnswer) {
703             $scope.msg = "";
704             http({
705                 url: '/leaveLecture',
706                 method: "POST",
707                 params: {'lecture_id': $scope.lectureId,
'doc_id': $scope.docId}
708             })
709                 .success(function (answer) {
710                     $scope.showBasicView(answer);
711                 });
712         }
713     };
714
715     /**
716     * Hides the wall. After this you can only see the topbar
of the wall.
717     * @memberof module:lectureController
718     */
719     $scope.hide = function () {
720         $scope.showWall = !$scope.showWall;
721
722         if (!$scope.showWall) {
723             $scope.wallHeight = wall.height();
724             wall.height(28);
725             $scope.newMessagesAmount = 0;
726             $scope.newMessagesAmountText = "(" +
$scope.newMessagesAmount + ")";
727         } else {
728             wall.height($scope.wallHeight);
729         }
730     };
731
732     /**
733     * Shows lecture creation. //TODO: Something is missing
from here
734     */
735     $scope.modifyLecture = function () {
736         $scope.showLectureCreation = true;
737     };
738

```



```

739     /**
740     * Sends http request to send a message.
741     * @param message The message to be sent.
742     * @returns {boolean} Whether the message was sent
successfully.
743     * @memberof module:lectureController
744     */
745     $scope.sendMessageEvent = function (message) {
746         if (message.trim() === "") {
747             $window.alert("Can't send empty messages");
748             return false;
749         }
750
751         http({
752             url: '/sendMessage',
753             method: 'POST',
754             params: {'message': message, 'lecture_id':
$scope.lectureId}
755         })
756         .success(function () {
757             $scope.newMsg = "";
758             //TODO: Fix this to scroll bottom without
cheating.
759             var wallArea = $('#wallArea');
760             wallArea.animate({scrollTop:
wallArea[0].scrollHeight * 10}, 1000);
761
762         })
763         .error(function () {
764             $window.console.log("Can't send message or
something");
765         });
766     };
767
768     /**
769     * Sends http request to get all the messages from the
current lecture.
770     * @memberof module:lectureController
771     */
772
773     $scope.getAllMessages = function () {
774         $scope.msg = "";
775         http({
776             url: '/getAllMessages',
777             type: 'GET',
778             params: {'lecture_id': $scope.lectureId, 'buster':
new Date().getTime()}
779         })
780         .success(function (answer) {
781             angular.forEach(answer.data, function (msg) {
782                 $scope.wallMessages.push(msg);
783                 if ($scope.messageName) {
784                     $scope.msg += msg.sender + " ";
785                 }
786                 if ($scope.messageTime) {
787                     $scope.msg += "<" + msg.time + ">: ";
788                 }
789
790                 $scope.msg += msg.message + "\n";
791             });
792

```

```

793             //TODO: Fix this to scroll bottom without
cheating.
794             var wallArea = $('#wallArea');
795             wallArea.animate({scrollTop:
wallArea[0].scrollHeight * 10}, 1000);
796
797             $scope.lastID = answer.lastid;
798             $scope.requestDocId = $scope.lectureId;
799
800             if
($scope.pollingLectures.indexOf(answer.lectureId) === -1) {
801                 $scope.startLongPolling($scope.lastID);
802
$scope.pollingLectures.push(answer.lectureId);
803             }
804         });
805     };
806
807     /**
808     * Gets answers from the current lecture to current
question.
809     * @param answer Lecture to get the answers from.
810     * @memberof module:lectureController
811     */
812     $scope.getLectureAnswers = function (answer) {
813         $scope.gettingAnswers = true;
814         http({
815             url: '/getLectureAnswers',
816             type: 'GET',
817             params: {
818                 'question_id': answer.questionId,
819                 'doc_id': $scope.docId,
820                 'lecture_id': $scope.lectureId,
821                 'time': answer.latestAnswer,
822                 'buster': new Date().getTime()
823             }
824         })
825         .success(function (answer) {
826             $rootScope.$broadcast("putAnswers", {"answers":
answer.answers});
827             if ($scope.gettingAnswers &&
!angular.isDefined(answer.noAnswer)) {
828                 $scope.getLectureAnswers(answer);
829             }
830         })
831         .error(function () {
832             $window.console.log("Couldn't get answers");
833         });
834     };
835
836
837     /**
838     * Starts long polling for the updates.(messages,
questions, lecture ending)
839     * @param lastID Last id which was received.
840     * @memberof module:lectureController
841     */
842     $scope.startLongPolling = function (lastID) {
843         function message_longPolling(lastID) {
844             var timeout;
845

```

```

846         if (lastID === null) {
847             lastID = -1;
848         }
849
850         $scope.requestOnTheWay = true;
851         http({
852             url: '/getUpdates',
853             type: 'GET',
854             params: {
855                 'client_message_id': lastID,
856                 'lecture_id': $scope.lectureId,
857                 'doc_id': $scope.docId,
858                 'is_lecturer': $scope.isLecturer, //
Tarkista mielummin serverin päässä
859                 'get_messages': $scope.useWall,
860                 'get_questions': $scope.useQuestions,
861                 'buster': new Date().getTime()
862             }
863         })
864         .success(function (answer) {
865
866             if (!answer.isLecture) {
867                 $scope.showBasicView(answer);
868                 return;
869             }
870
871             $scope.pollingLectures.splice($scope.pollingLectures.indexOf(answer.lectureId), 1);
872             if (answer.lectureId !== $scope.lectureId)
873             {
874                 return;
875             }
876             if (answer.lectureEnding !== 100) {
877                 if (answer.lectureEnding === 1 &&
!$scope.lectureEnded) {
878                     $scope.showLectureEnding = true;
879                     $scope.lectureEnded = true;
880                 }
881                 if (!$scope.answeredToLectureEnding) {
882                     $scope.showLectureEnding = true;
883                 }
884             }
885             $scope.addPeopleToList(answer.students,
$scope.studentTable);
886             $scope.addPeopleToList(answer.lecturers,
$scope.lecturerTable);
887
888
889             if (answer.question && !$scope.isLecturer)
890             {
891                 $scope.showAnswerWindow = true;
892
893             $rootScope.$broadcast("setQuestionJson", {
894                 questionJson:
JSON.parse(answer.questionJson),
895                 questionId: answer.questionId,
896                 isLecturer: $scope.isLecturer
            });
900         }

```

```

897
898         $scope.requestOnTheWay = false;
899         $window.clearTimeout(timeout);
900         if ($scope.polling) {
901
902 $scope.pollingLectures.push(answer.lectureId);
903         // Odottaa sekunnin ennen kuin pollaa
uudestaan.
904         timeout = setTimeout(function () {
905             message_longPolling(answer.lastid);
906         }, 1000);
907
908         if (answer.status === 'results') {
909             angular.forEach(answer.data,
function (msg) {
910                 $scope.wallMessages.push(msg);
911                 if ($scope.messageName &&
$scope.messageTime) {
912                     $scope.msg += msg.sender;
913                     $scope.msg += " <" +
msg.time + ">: ";
914                     $scope.msg += msg.message +
"\r\n";
915                 }
916
917                 if (!$scope.messageName &&
$scope.messageTime) {
918                     $scope.msg += " <" +
msg.time + ">: ";
919                     $scope.msg += msg.message +
"\r\n";
920                 }
921
922                 if ($scope.messageName &&
!$scope.messageTime) {
923                     $scope.msg += msg.sender +
": ";
924                     $scope.msg += msg.message +
"\r\n";
925                 }
926
927                 if (!$scope.messageName &&
!$scope.messageTime) {
928                     $scope.msg += ">" +
msg.message + "\r\n";
929                 }
930
931             });
932             $scope.lastID = answer.lastid;
933             var wallArea = $('#wallArea');
934             wallArea.scrollTop(wallArea[0].scrollHeight);
935         } else {
936             $window.console.log("Sending new
poll.");
937
938         }
939
940     } else {
941

```

```

942             $window.console.log("Got answer but not
polling anymore.");
943         }
944     })
945     .error(function () {
946         $scope.requestOnTheWay = false;
947         $window.clearTimeout(timeout);
948         //Odottaa 30s ennen kuin yrittää uudelleen
errorin jälkeen.
949         timeout = setTimeout(function () {
950             message_longPolling();
951         }, 30000);
952     });
953 }
954
955     message_longPolling(lastID);
956 };
957
958 /**
959  * Event for pressing enter while writing message. Sends
message.
960  * @param event They key press.
961  * @memberof module:lectureController
962  */
963 $scope.chatEnterPressed = function (event) {
964     if (event.which === 13) {
965         $scope.sendMessageEvent($scope.newMsg);
966     }
967 };
968
969 /**
970  * Event when pressing enter while writing password for
lecture. Tries to join lecture
971  * @param event The key press.
972  * @memberof module:lectureController
973  */
974 $scope.passEnterPressed = function (event) {
975     if (event.which === 13) {
976         $scope.joinLecture();
977     }
978 };
979
980 /**
981  * Left padder that adds 0 to left side of number.
982  * @param number Given number to add 0s
983  * @param size how many characters the padded value should
be.
984  * @returns {string} The string of the length specified
padded with zeroes.
985  * @memberof module:lectureController
986  */
987 $scope.leftPadder = function (number, size) {
988     var paddedNumber = "" + number;
989     var len = paddedNumber.length;
990     while (len < size) {
991         paddedNumber = "0" + paddedNumber;
992         len++;
993     }
994     return paddedNumber;
995
996 };

```

```
997     }
998   ] )
999   ;
```

File: tulostettavat/static/scripts/sidebarMenuCtrl.js

```
1  /**
2   * FILL WITH SUITABLE TEXT
3   * @module sidebarMenuCtrl
4   * @author Matias Berg
5   * @author Bek Eljurkaev
6   * @author Minna Lehtomäki
7   * @author Juhani Sihvonen
8   * @author Hannu Viinikainen
9   * @licence MIT
10  * @copyright 2015 Timppa project authors
11  */
12
13  timApp.controller("SidebarMenuCtrl", ['$scope', '$http', '$window',
14
15    function ($scope, $http, $window) {
16      $scope.currentLecturesList = [];
17      $scope.futureLecturesList = [];
18      $scope.pastLecturesList = [];
19      $scope.lectureQuestions = [];
20      $scope.materialQuestions = [];
21      $scope.indexSidebarState = 'autohidden';
22      $scope.lecturesSidebarState = 'autohidden';
23      $scope.questionSidebarState = 'autohidden';
24      $scope.peopleSidebarState = 'autohidden';
25      $scope.settingsSidebarState = 'autohidden';
26      $scope.indexIconState = 'noClick';
27      $scope.lectureIconState = 'noClick';
28      $scope.questionIconState = 'noClick';
29      $scope.peopleIconState = 'noClick';
30      $scope.settingsIconState = 'noClick';
31
32      /**
33       * FILL WITH SUITABLE TEXT
34       * @memberof module:sidebarMenuCtrl
35       */
36      $scope.showSidebar = function () {
37        $(' .menu').slideToggle();
38        $('#futureList').hide();
39        $('#currentList').hide();
40        $scope.indexSidebarState = 'hidden';
41        $scope.lecturesSidebarState = 'hidden';
42        $scope.questionSidebarState = 'hidden';
43        $scope.peopleSidebarState = 'hidden';
44        $scope.settingsSidebarState = 'hidden';
45      };
46
47      var w = angular.element($window);
48
49      /**
50       * FILL WITH SUITABLE TEXT
51       * @memberof module:sidebarMenuCtrl
52       */
```

```

53         w.bind('resize', function () {
54             $scope.indexSidebarState = 'hidden';
55             $scope.lecturesSidebarState = 'hidden';
56             $scope.questionSidebarState = 'hidden';
57             $scope.peopleSidebarState = 'hidden';
58             $scope.settingsSidebarState = 'hidden';
59 $scope.indexIconState = 'noClick';
60 $scope.lectureIconState = 'noClick';
61 $scope.questionIconState = 'noClick';
62 $scope.peopleIconState = 'noClick';
63 $scope.settingsIconState = 'noClick';
64         });
65
66         /**
67          * FILL WITH SUITABLE TEXT
68          * @memberof module:sidebarMenuCtrl
69          */
70         $scope.toggleIndex = function () {
71             var visible = angular.element('.index-
72 sidebar').is(":visible");
73             if (visible) {
74                 $scope.indexSidebarState = 'hidden';
75                 $scope.indexIconState = 'noClick';
76             } else {
77                 $scope.indexSidebarState = 'open';
78                 $scope.lecturesSidebarState = 'hidden';
79                 $scope.questionSidebarState = 'hidden';
80                 $scope.peopleSidebarState = 'hidden';
81                 $scope.settingsSidebarState = 'hidden';
82                 $scope.indexIconState = 'clicked';
83                 $scope.lectureIconState = 'noClick';
84                 $scope.questionIconState = 'noClick';
85                 $scope.peopleIconState = 'noClick';
86                 $scope.settingsIconState = 'noClick';
87             }
88         };
89
90         /**
91          * FILL WITH SUITABLE TEXT
92          * @memberof module:sidebarMenuCtrl
93          */
94         $scope.toggleLectures = function () {
95             var visible = angular.element('.lectures-
96 sidebar').is(":visible");
97             if (visible) {
98                 $scope.lecturesSidebarState = 'hidden';
99                 $scope.lectureIconState = 'noClick';
100             } else {
101                 $scope.indexSidebarState = 'hidden';
102                 $scope.lecturesSidebarState = 'open';
103                 $scope.questionSidebarState = 'hidden';
104                 $scope.peopleSidebarState = 'hidden';
105                 $scope.settingsSidebarState = 'hidden';
106                 $scope.indexIconState = 'noClick';
107                 $scope.lectureIconState = 'clicked';
108                 $scope.questionIconState = 'noClick';
109                 $scope.peopleIconState = 'noClick';
110                 $scope.settingsIconState = 'noClick';
111
112                 $http({

```

```

112         url: '/getAllLecturesFromDocument',
113         method: 'GET',
114         params: {'doc_id': $scope.docId}
115     })
116     .success(function (lectures) {
117         $scope.currentLecturesList =
lectures.currentLectures;
118         $scope.futureLecturesList =
lectures.futureLectures;
119         $scope.pastLecturesList =
lectures.pastLectures;
120     })
121     .error(function () {
122         console.log("Couldn't fetch the lectures");
123     })
124
125
126     }
127 };
128
129 /**
130  * FILL WITH SUITABLE TEXT
131  * @memberof module:sidebarMenuCtrl
132  */
133     $scope.toggleQuestions = function () {
134         var visible = angular.element('.questions-
sidebar').is(":visible");
135
136         $scope.lectureQuestions = [];
137         if (visible) {
138             $scope.questionSidebarState = 'hidden';
139             $scope.questionIconState = 'noClick';
140
141         } else {
142             $scope.indexSidebarState = 'hidden';
143             $scope.lecturesSidebarState = 'hidden';
144             $scope.questionSidebarState = 'open';
145             $scope.peopleSidebarState = 'hidden';
146             $scope.settingsSidebarState = 'hidden';
147             $scope.indexIconState = 'noClick';
148             $scope.lectureIconState = 'noClick';
149             $scope.questionIconState = 'clicked';
150             $scope.peopleIconState = 'noClick';
151             $scope.settingsIconState = 'noClick';
152
153             $http({
154                 url: '/questions/' + $scope.docId,
155                 method: 'GET'
156             })
157             .success(function (questions) {
158                 for (var i = 0; i < questions.length; i++)
159                 {
160                     var question = {
161                         "questionId":
questions[i].question_id,
162                         "questionTitle":
(JSON.parse(questions[i].questionJson)).TITLE
163                     };
164                     $scope.lectureQuestions.push(question);
165                 }
166             })

```



```

166             .error(function () {
167                 console.log("Couldn't fetch the
questions");
168             })
169         }
170     };
171
172     /**
173     * FILL WITH SUITABLE TEXT
174     * @memberof module:sidebarMenuCtrl
175     */
176     $scope.togglePeople = function () {
177         var visible = angular.element('.people-
sidebar').is(":visible");
178         if (visible) {
179             $scope.peopleSidebarState = 'hidden';
180             $scope.peopleIconState = 'noClick';
181
182         } else {
183             $scope.indexSidebarState = 'hidden';
184             $scope.lecturesSidebarState = 'hidden';
185             $scope.questionSidebarState = 'hidden';
186             $scope.peopleSidebarState = 'open';
187             $scope.settingsSidebarState = 'hidden';
188             $scope.indexIconState = 'noClick';
189             $scope.lectureIconState = 'noClick';
190             $scope.questionIconState = 'noClick';
191             $scope.peopleIconState = 'clicked';
192             $scope.settingsIconState = 'noClick';
193         }
194     };
195
196     /**
197     * FILL WITH SUITABLE TEXT
198     * @memberof module:sidebarMenuCtrl
199     */
200     $scope.toggleSettings = function () {
201         var visible = angular.element('.settings-
sidebar').is(":visible");
202         if (visible) {
203             $scope.settingsSidebarState = 'hidden';
204             $scope.settingsIconState = 'noClick';
205         } else {
206             $scope.indexSidebarState = 'hidden';
207             $scope.lecturesSidebarState = 'hidden';
208             $scope.questionSidebarState = 'hidden';
209             $scope.peopleSidebarState = 'hidden';
210             $scope.settingsSidebarState = 'open';
211             $scope.indexIconState = 'noClick';
212             $scope.lectureIconState = 'noClick';
213             $scope.questionIconState = 'noClick';
214             $scope.peopleIconState = 'noClick';
215             $scope.settingsIconState = 'clicked';
216         }
217     };
218
219     /**
220     * FILL WITH SUITABLE TEXT
221     * @memberof module:sidebarMenuCtrl
222     */
223     $scope.autoHideSidebar = function () {

```

```

224         if ($scope.indexSidebarState === 'open') {
225             $scope.indexSidebarState = 'autohidden';
226         }
227         if ($scope.lecturesSidebarState === 'open') {
228             $scope.lecturesSidebarState = 'autohidden';
229         }
230         if ($scope.questionSidebarState === 'open') {
231             $scope.questionSidebarState = 'autohidden';
232         }
233         if ($scope.peopleSidebarState === 'open') {
234             $scope.peopleSidebarState = 'autohidden';
235         }
236         if ($scope.settingsSidebarState === 'open') {
237             $scope.settingsSidebarState = 'autohidden';
238         }
239     };
240 }
241 ])
242 ;

```

File: tulostettavat/static/scripts/smallMenuCtrl.js

```

1  /**
2   * FILL WITH SUITABLE TEXT
3   * @module smallMenuCtrl
4   * @author Matias Berg
5   * @author Bek Eljurkaev
6   * @author Minna Lehtomäki
7   * @author Juhani Sihvonen
8   * @author Hannu Viinikainen
9   * @licence MIT
10  * @copyright 2015 Timppa project authors
11  */
12
13  timApp.controller("SmallMenuCtrl", ['$scope', '$window', '$http',
14    function ($scope, $window, $http) {
15      $scope.currentLecturesList = [];
16      $scope.futureLecturesList = [];
17
18      /**
19       * FILL WITH SUITABLE TEXT
20       * @memberofof module:smallMenuCtrl
21       */
22      var ready = function() {
23        $('#currentList').hide();
24        $('#futureList').hide();
25      };
26
27      /**
28       * FILL WITH SUITABLE TEXT
29       * @memberofof module:smallMenuCtrl
30       */
31      $scope.openCurrentLectureMenu = function() {
32        $('#currentList').slideToggle();
33        $('#futureList').hide();
34        $('.menu').hide();
35
36        $http({

```

```

37         url: '/getAllLecturesFromDocument',
38         method: 'GET',
39         params: {'doc_id': $scope.docId, 'buster':
Date.now()})
40     })
41     .success(function (lectures) {
42         $scope.currentLecturesList =
lectures.currentLectures;
43
44     })
45     .error(function () {
46         console.log("Couldn't fetch the lectures");
47     })
48
49 };
50
51     /**
52     * FILL WITH SUITABLE TEXT
53     * @memberof module:smallMenuCtrl
54     */
55     $scope.openFutureLectureMenu = function() {
56         $('#futureList').slideToggle();
57         $('#currentList').hide();
58         $('.menu').hide();
59
60         $http({
61             url: '/getAllLecturesFromDocument',
62             method: 'GET',
63             params: {'doc_id': $scope.docId}
64         })
65         .success(function (lectures) {
66             $scope.futureLecturesList =
lectures.futureLectures;
67         })
68         .error(function () {
69             console.log("Couldn't fetch the lectures");
70         })
71
72     };
73
74     /**
75     * FILL WITH SUITABLE TEXT
76     * @memberof module:smallMenuCtrl
77     */
78     $scope.selectCurrentLecture = function() {
79
80     };
81
82     var w = angular.element($window);
83     w.bind('resize', function () {
84         $('#currentList').hide();
85         $('#futureList').hide();
86     });
87     }
88     ]);
89
90
91

```

File: tulostettavat/static/scripts/view_html.js

```
1  var katex, $, angular, modules, version, refererPath, docId, docName,
rights, startIndex, users, teacherMode, lectureMode;
2
3  /*global $:false */
4
5  var timApp = angular.module('timApp');
6  timApp.controller("ViewCtrl", [
7      '$scope',
8      '$http',
9      '$q',
10     '$upload',
11     '$injector',
12     '$compile',
13     '$window',
14     '$document',
15     '$rootScope',
16     function (sc, http, q, $upload, $injector, $compile, $window,
$document, $rootScope) {
17         "use strict";
18         http.defaults.headers.common.Version = version.hash;
19         http.defaults.headers.common.RefererPath = refererPath;
20         sc.docId = docId;
21         sc.docName = docName;
22         sc.rights = rights;
23         sc.startIndex = startIndex;
24         sc.users = users;
25         sc.teacherMode = teacherMode;
26         sc.lectureMode = lectureMode;
27         sc.selectedUser = sc.users[0];
28         sc.noteClassAttributes = ["difficult", "unclear",
"editable", "private"];
29         sc.editing = false;
30         sc.questionShown = false;
31         sc.firstTimeQuestions = true;
32         var DEFAULT_BUTTON_CLASS = "timButton defaultButton";
33         var NOTE_ADD_BUTTON_CLASS = "timButton addNote";
34         var NOTE_ADD_BUTTON = "." + NOTE_ADD_BUTTON_CLASS.replace("
", ".");
35         var EDITOR_CLASS = "editorArea";
36         var EDITOR_CLASS_DOT = "." + EDITOR_CLASS;
37         var PAR_ADD_BUTTON_CLASS = "timButton addPar";
38         var PAR_ADD_BUTTON = "." + PAR_ADD_BUTTON_CLASS.replace(" ",
".");
39         var PAR_EDIT_BUTTON_CLASS = "timButton editPar";
40         var PAR_EDIT_BUTTON = "." + PAR_EDIT_BUTTON_CLASS.replace("
", ".");
41         var QUESTION_ADD_BUTTON_CLASS = "timButton addQuestion";
42         var QUESTION_ADD_BUTTON = "." +
QUESTION_ADD_BUTTON_CLASS.replace(" ", ".");
43         var PAR_CLOSE_BUTTON_CLASS = "timButton menuClose";
44         var PAR_CLOSE_BUTTON = "." +
PAR_CLOSE_BUTTON_CLASS.replace(" ", ".");
45
46         sc.processAllMath = function ($elem) {
47             $elem.find('.math').each(function () {
48                 sc.processMath(this);
49             });
50         };
```

```

51
52     sc.processMath = function (elem) {
53         var $this = $(elem);
54         var math = $this.text();
55         var hasDisplayMode = false;
56         if (math[1] === '[') {
57             hasDisplayMode = true;
58         }
59         else if (math[1] !== '(') {
60             return;
61         }
62         katex.render(math.slice(2, -2), elem, {displayMode:
hasDisplayMode});
63     };
64
65
66     sc.changeUser = function (user) {
67         sc.$broadcast('userChanged', {user: user});
68     };
69
70     sc.getParIndex = function ($par) {
71         return $par.index() + sc.startIndex;
72     };
73
74     sc.getElementByParIndex = function (index) {
75         return $("#pars").children().eq(index - sc.startIndex);
76     };
77
78     sc.toggleParEditor = function ($par, options) {
79         var url;
80         if ($par.hasClass("new")) {
81             url = '/newParagraph/';
82         } else {
83             url = '/postParagraph/';
84         }
85         var par_id = sc.getParIndex($par);
86         var attrs = {
87             "save-url": url,
88             "extra-data": JSON.stringify({
89                 docId: sc.docId,
90                 par: par_id
91             }),
92             "options": JSON.stringify({
93                 showDelete: options.showDelete,
94                 showImageUpload: true,
95                 destroyAfterSave: true
96             }),
97             "after-save": 'addSavedParToDom(saveData,
extraData)',
98             "after-cancel": 'handleCancel(extraData)',
99             "after-delete": 'handleDelete(saveData, extraData)',
100             "preview-url": '/preview/' + sc.docId,
101             "delete-url": '/deleteParagraph/' + sc.docId + "/"
+ par_id
102         };
103         if (options.showDelete) {
104             attrs["initial-text-url"] = '/getBlock/' + sc.docId
+ "/" + par_id;
105         }
106         sc.toggleEditor($par, options, attrs);
107     };

```

```

108
109     sc.toggleEditor = function ($par, options, attrs) {
110         if ($par.children(EDITOR_CLASS_DOT).length) {
111             $par.children().remove(EDITOR_CLASS_DOT);
112             sc.editing = false;
113         } else {
114             $(EDITOR_CLASS_DOT).remove();
115
116             var createEditor = function (attrs) {
117                 var $div = $("

editor>", {class:
EDITOR_CLASS}).attr(attrs);
118                 $compile($div[0])(sc);
119                 $par.append($div);
120                 sc.editing = true;
121             };
122
123             if (options.showDelete) {
124                 $(".par.new").remove();
125             }
126             createEditor(attrs);
127         }
128     };
129
130     sc.showQuestionById = function (questionId) {
131         var question = $("#" + questionId);
132         sc.showQuestion(question);
133     };
134
135
136     sc.showQuestion = function (question) {
137         sc.json = "No data";
138         sc.qId = question[0].getAttribute('id');
139
140         http({
141             url: '/getQuestionById',
142             method: 'GET',
143             params: {'question_id': sc.qId, 'buster': new
Date().getTime()})
144         })
145         .success(function (data) {
146             sc.json = JSON.parse(data.questionJson);
147         })
148         .error(function () {
149             $window.console.log("There was some error
creating question to database.");
150         });
151
152
153
154
155         sc.lectureId = -1;
156         sc.inLecture = false;
157
158         sc.$on('postLectureId', function (event, response) {
159             sc.lectureId = response;
160         });
161
162         sc.$on('postInLecture', function (event, response) {
163             sc.inLecture = response;
164         });
165


```

```

166         $rootScope.$broadcast('getLectureId');
167         $rootScope.$broadcast('getInLecture');
168         sc.showQuestionPreview = true;
169         sc.$digest();
170     };
171
172     sc.toggleNoteEditor = function ($par, options) {
173         if (!sc.rights.can_comment) {
174             return;
175         }
176         var url,
177             data;
178         if (options.isNew) {
179             url = '/postNote';
180             data = {
181                 access: 'everyone',
182                 tags: {
183                     difficult: false,
184                     unclear: false
185                 }
186             };
187         } else {
188             url = '/editNote';
189             data = options.noteData;
190             if (!data.editable) {
191                 $window.alert('You cannot edit this note.');
```

```

extraData)',
223         "after-cancel": 'handleNoteCancel(extraData)',
224         "after-delete": 'handleNoteDelete(saveData,
extraData)',
225         "preview-url": '/preview/' + sc.docId,
226         "delete-url": '/deleteNote',
227         "editor-text": data.content
228     };
229     sc.toggleEditor($par, options, attrs);
230 };
231
232 sc.forEachParagraph = function (func) {
233     $('.paragraphs .par').each(func);
234 };
235
236 // Event handlers
237
238 var ua = $window.navigator.userAgent,
239     eventName = (ua.match(/iPad/i)) ? "touchstart" :
"click";
240
241 sc.addEvent = function (className, func) {
242     $document.on(eventName, className, func);
243 };
244
245 sc.showEditWindow = function (e, $par) {
246     sc.toggleParEditor($par, {showDelete: true});
247 };
248
249 sc.addEvent(PAR_EDIT_BUTTON, function (e) {
250     var $par = $(e.target).parent().parent().parent();
251     $(".par.new").remove();
252     sc.toggleActionButtons(e, $par, false, false, null);
253     sc.showEditWindow(e, $par, null);
254 });
255
256 sc.addEvent("#defaultEdit", function (e) {
257     var $par = $(e.target).parent().parent().parent();
258     sc.toggleActionButtons(e, $par, false, false, null);
259     sc.defaultAction = sc.showEditWindow;
260 });
261
262 sc.showAddParagraphAbove = function (e, $par) {
263     var $newpar = $("

", {class: "par new"})
264         .append($("<div>", {class: "parContent"}).html('New
paragraph'));
265     $par.before($newpar);
266     sc.toggleParEditor($newpar, {showDelete: false});
267 };
268
269 sc.showAddParagraphBelow = function (e, $par) {
270     var $newpar = $("

", {class: "par new"})
271         .append($("<div>", {class: "parContent"}).html('New
paragraph'));
272     $par.after($newpar);
273     sc.toggleParEditor($newpar, {showDelete: false});
274 };
275
276 sc.addEvent(PAR_ADD_BUTTON, function (e) {
277     var $par = $(e.target).parent().parent().parent();
278     $(".par.new").remove();


```



```

279         sc.toggleActionButtons(e, $par, false, false, null);
280         var $newpar = $("<div>", {class: "par new"})
281             .append $("<div>", {class: "parContent"}).html('New
paragraph'));
282
283         if ($(e.target).hasClass("above")) {
284             $par.before($newpar);
285         } else if ($(e.target).hasClass("below")) {
286             $par.after($newpar);
287         }
288
289         sc.toggleParEditor($newpar, {showDelete: false});
290     });
291
292     // Event handler for "Add question below"
293     // Opens pop-up window to create question.
294     sc.addEvent(QUESTION_ADD_BUTTON, function (e) {
295         var $par = $(e.target).parent().parent().parent();
296         sc.toggleQuestion();
297         sc.toggleActionButtons(e, $par, false, false, null);
298         sc.par = $par;
299         sc.$apply();
300     });
301
302     // Shows question window
303     sc.toggleQuestion = function () {
304         sc.questionShown = !sc.questionShown;
305     };
306
307     $.fn.slideFadeToggle = function (easing, callback) {
308         return this.animate({opacity: 'toggle', height:
'toggle'}, 'fast', easing, callback);
309     };
310
311     sc.addEvent("#defaultPrepend", function (e) {
312         var $par = $(e.target).parent().parent().parent();
313         sc.toggleActionButtons(e, $par, false, false, null);
314         sc.defaultAction = sc.showAddParagraphAbove;
315     });
316
317     sc.addEvent("#defaultAppend", function (e) {
318         var $par = $(e.target).parent().parent().parent();
319         sc.toggleActionButtons(e, $par, false, false, null);
320         sc.defaultAction = sc.showAddParagraphBelow;
321     });
322
323     sc.doNothing = function (e, $par) {
324         sc.toggleActionButtons(e, $par, false, false, null);
325     };
326
327     sc.addEvent(PAR_CLOSE_BUTTON, function (e) {
328         var $par = $(e.target).parent().parent().parent();
329         $(".par.new").remove();
330         sc.toggleActionButtons(e, $par, false, false, null);
331     });
332
333     sc.addEvent("#defaultClose", function (e) {
334         var $par = $(e.target).parent().parent().parent();
335         sc.toggleActionButtons(e, $par, false, false, null);
336         sc.defaultAction = sc.doNothing;
337     });

```

```

338
339     sc.handleCancel = function (extraData) {
340         var $par = sc.getElementByParIndex(extraData.par);
341         if ($par.hasClass("new")) {
342             $par.remove();
343         }
344         sc.editing = false;
345     };
346
347     sc.handleDelete = function (data, extraData) {
348         var $par = sc.getElementByParIndex(extraData.par);
349         http.defaults.headers.common.Version = data.version;
350         $par.remove();
351         sc.editing = false;
352     };
353
354     sc.addSavedParToDom = function (data, extraData) {
355         var $par = sc.getElementByParIndex(extraData.par),
356             len = data.texts.length;
357         http.defaults.headers.common.Version = data.version;
358         for (var i = len - 1; i >= 0; i--) {
359             var $newpar = $("<div>", {class: "par"})
360                 .append("<div>", {class:
"parContent"}).html($compile(data.texts[i].html)(sc));
361             var readClass = "unread";
362             if (i === 0 && !$par.hasClass("new")) {
363                 $par.find(".notes").appendTo($newpar);
364                 if ($par.find(".read, .modified").length > 0) {
365                     readClass = "modified";
366                 }
367             }
368             $par.after($newpar.append("<div>",
369                 {class: "readline " + readClass, title: "Click
to mark this paragraph as read"}));
370             sc.processMath($newpar[0]);
371         }
372         $par.remove();
373         sc.editing = false;
374     };
375
376     sc.addEvent(".readline", function () {
377         var par_id = sc.getParIndex($(this).parents('.par'));
378         var oldClass = $(this).attr("class");
379         $(this).attr("class", "readline read");
380         http.put('/read/' + sc.docId + '/' + par_id + '?_=' +
Date.now())
381             .success(function (data, status, headers, config) {
382                 // No need to do anything here
383             }).error(function () {
384                 $window.alert('Could not save the read
marking.');
```

```

395         sc.toggleActionButtons(e, $par, false, false, null);
396         sc.showNoteWindow(e, $par, null);
397     });
398
399     sc.addEvent("#defaultAdd", function (e) {
400         var $par = $(e.target).parent().parent().parent();
401         sc.toggleActionButtons(e, $par, false, false, null);
402         sc.defaultAction = sc.showNoteWindow;
403     });
404
405     sc.handleNoteCancel = function () {
406         sc.editing = false;
407     };
408
409     sc.handleNoteDelete = function () {
410         sc.getNotes();
411         sc.editing = false;
412     };
413
414     sc.handleNoteSave = function () {
415         sc.getNotes();
416         sc.editing = false;
417     };
418
419     sc.addEvent('.paragraphs .parContent', function (e) {
420         if (sc.editing) {
421             return;
422         }
423
424         sc.$apply();
425
426         var $target = $(e.target);
427         var tag = $target.prop("tagName");
428
429         // Don't show paragraph menu on these specific tags or
class
430         var ignoredTags = ['BUTTON', 'INPUT', 'TEXTAREA', 'A'];
431         if (ignoredTags.indexOf(tag) > -1 ||
$target.parents('.no-popup-menu').length > 0) {
432             return;
433         }
434
435         var $par = $(this).parent();
436         var coords = {left: e.pageX - $par.offset().left, top:
e.pageY - $par.offset().top};
437         var toggle1 = $par.find(".actionButtons").length === 0;
438         var toggle2 = $par.hasClass("lightselect");
439
440         $(".par.selected").removeClass("selected");
441         $(".par.lightselect").removeClass("lightselect");
442         $(".actionButtons").remove();
443         sc.toggleActionButtons(e, $par, toggle1, toggle2,
coords);
444     });
445
446     sc.addEvent(".noteContent", function () {
447         sc.toggleNoteEditor($(this).parent().parent().parent(),
{isNew: false, noteData: $(this).parent().data()});
448     });
449
450     sc.addEvent(".questionAdded", function () {

```

```

451         sc.showQuestion($(this));
452         sc.par = ($(this.parentNode.parentNode));
453     });
454
455     // Note-related functions
456
457     sc.showOptionsWindow = function (e, $par, coords) {
458         var default_width = $par.outerWidth() / 16;
459         var button_width = $par.outerWidth() / 4 - 1.7 *
default_width;
460         var $actionDiv = $("<div>", {class: 'actionButtons'});
461         var $span;
462         if (sc.rights.can_comment) {
463             $span = $("<span>");
464             $span.append($("<button>", {class:
NOTE_ADD_BUTTON_CLASS, text: 'Comment/note', width: button_width}));
465             $span.append($("<button>", {
466                 id: 'defaultAdd',
467                 class: DEFAULT_BUTTON_CLASS,
468                 text: 'Default',
469                 width: default_width
470             }));
471             $actionDiv.append($span);
472         }
473         if (sc.rights.editable) {
474             $span = $("<span>");
475             $span.append($("<button>", {class:
PAR_EDIT_BUTTON_CLASS, text: 'Edit', width: button_width}));
476             $span.append($("<button>", {
477                 id: 'defaultEdit',
478                 class: DEFAULT_BUTTON_CLASS,
479                 text: 'Default',
480                 width: default_width
481             }));
482             $actionDiv.append($span);
483
484             $span = $("<span>");
485             $span.append($("<button>", {
486                 class: PAR_ADD_BUTTON_CLASS + ' above',
487                 text: 'Add paragraph above',
488                 width: button_width
489             }));
490             $span.append($("<button>", {
491                 id: 'defaultPrepend',
492                 class: DEFAULT_BUTTON_CLASS,
493                 text: 'Default',
494                 width: default_width
495             }));
496             $actionDiv.append($span);
497
498             $span = $("<span>");
499             $span.append($("<button>", {
500                 class: PAR_ADD_BUTTON_CLASS + ' below',
501                 text: 'Add paragraph below',
502                 width: button_width
503             }));
504             $span.append($("<button>", {
505                 id: 'defaultAppend',
506                 class: DEFAULT_BUTTON_CLASS,
507                 text: 'Default',
508                 width: default_width

```

```

509         }));
510         $actionDiv.append($span);
511
512         if (sc.lectureMode) {
513             $span = $("<span>");
514             $span.append($("<button>", {
515                 class: QUESTION_ADD_BUTTON_CLASS,
516                 text: 'Create question',
517                 width: button_width
518             }));
519             $span.append($("<button>", {
520                 id: 'createQuestion',
521                 class: DEFAULT_BUTTON_CLASS,
522                 text: 'Default',
523                 width: default_width
524             }));
525             $actionDiv.append($span);
526         }
527
528         $span = $("<span>");
529         $span.append($("<button>", {class:
PAR_CLOSE_BUTTON_CLASS, text: 'Close menu', width: button_width}));
530         $span.append($("<button>", {
531             id: 'defaultClose',
532             class: DEFAULT_BUTTON_CLASS,
533             text: 'Default',
534             width: default_width
535         }));
536         $actionDiv.append($span);
537
538     }
539     $actionDiv.offset(coords);
540     $actionDiv.css('position', 'absolute'); // IE needs
this
541     $par.prepend($actionDiv);
542 }
543
544     sc.toggleActionButtons = function (e, $par, toggle1,
toggle2, coords) {
545         if (!sc.rights.editable && !sc.rights.can_comment) {
546             return;
547         }
548         if (toggle2) {
549             // Clicked twice successively
550             var clicktime = new Date().getTime() -
sc.lastclick;
551             //console.log(clicktime);
552             $par.addClass("selected");
553
554             if (clicktime < 500) {
555                 // Double click
556                 sc.defaultAction(e, $par, coords);
557             }
558             else {
559                 // Two clicks
560                 sc.showOptionsWindow(e, $par, coords);
561             }
562         } else if (toggle1) {
563             // Clicked once
564             $par.addClass("lightselect");
565             sc.lastclick = new Date().getTime();

```

```

566         } else {
567             $window.console.log("This line is new: " + $par);
568             $par.children().remove(".actionButtons");
569             $par.removeClass("selected");
570             $par.removeClass("lightselect");
571         }
572     };
573
574     sc.getNoteHtml = function (notes) {
575         var $noteDiv = $("<div>", {class: 'notes'});
576         for (var i = 0; i < notes.length; i++) {
577             var classes = ["note"];
578             for (var j = 0; j < sc.noteClassAttributes.length;
j++) {
579                 if (notes[i][sc.noteClassAttributes[j]] ||
notes[i].tags[sc.noteClassAttributes[j]]) {
580                     classes.push(sc.noteClassAttributes[j]);
581                 }
582             }
583             $noteDiv.append($("<div>", {class: classes.join("
")}))
584                 .data(notes[i])
585                 .append($("<div>", {class: 'noteContent', html:
notes[i].htmlContent})));
586         }
587         return $noteDiv;
588     };
589
590     sc.getQuestionHtml = function (questions) {
591         var questionImage = '../../static/images/show-
question-icon.png';
592         var $questionsDiv = $("<div>", {class: 'questions'});
593
594         // TODO: Think better way to get the ID of question.
595         for (var i = 0; i < questions.length; i++) {
596             var img = new Image(30, 30);
597             img.src = questionImage;
598             img.title = questions[i].question_title;
599             var $questionDiv = $("<span>", {
600                 class: 'questionAdded', html: img, id:
questions[i].question_id
601             });
602             $questionsDiv.append($questionDiv);
603         }
604         return $questionsDiv;
605     };
606
607
608     sc.getQuestions = function () {
609         var rn = "?_" + Date.now();
610
611         http.get('/questions/' + sc.docId + rn)
612             .success(function (data) {
613                 var pars = {};
614                 var questionCount = data.length;
615                 for (var i = 0; i < questionCount; i++) {
616                     var pi = data[i].par_index;
617                     if (!(pi in pars)) {
618                         pars[pi] = {questions: []};
619                     }
620                 }

```

```

621         pars[pi].questions.push(data[i]);
622     }
623
624     sc.forEachParagraph(function (index) {
625         if
626         ($(this).children().hasClass("questions")) {
627             var children = $(this).children();
628             for (var i = 0; i <
children.length; i++) {
629                 if (children[i].className ==
"questions") {
630                     children[i].remove();
631                 }
632             }
633
634             var parIndex = index + sc.startIndex;
635             if (parIndex in pars) {
636                 var $questionsDiv =
sc.getQuestionHtml(pars[parIndex].questions);
637                 $(this).append($questionsDiv);
638
639             }
640         }
641     });
642
643 });
644 };
645
646
647 sc.getNotes = function () {
648     var rn = "?_" + Date.now();
649
650     http.get('/notes/' + sc.docId + rn).success(function
651     (data) {
652         $('<div>.notes').remove();
653         var pars = {};
654
655         var noteCount = data.length;
656         for (var i = 0; i < noteCount; i++) {
657             var pi = data[i].par_index;
658             if (!(pi in pars)) {
659                 pars[pi] = {notes: []};
660             }
661             if (!('notes' in pars[pi])) {
662                 pars[pi].notes = [];
663             }
664             pars[pi].notes.push(data[i]);
665         }
666         sc.forEachParagraph(function (index) {
667             var parIndex = index + sc.startIndex;
668             if (parIndex in pars) {
669                 var $notediv =
sc.getNoteHtml(pars[parIndex].notes);
670                 var $this = $(this);
671                 $this.append($notediv);
672                 sc.processAllMath($this);
673             }
674         });
675     });

```

```

676         }).error(function () {
677             $window.alert("Could not fetch notes.");
678         });
679     };
680
681     sc.getReadPars = function () {
682         if (!sc.rights.can_mark_as_read) {
683             return;
684         }
685         var rn = "?_" + Date.now();
686         http.get('/read/' + sc.docId + rn).success(function
687 (data) {
688             var readCount = data.length;
689             $('.readline').remove();
690             var pars = {};
691             for (var i = 0; i < readCount; i++) {
692                 var readPar = data[i];
693                 var pi = data[i].par_index;
694                 if (!(pi in pars)) {
695                     pars[pi] = {};
696                 }
697                 pars[pi].readStatus = readPar.status;
698             }
699             sc.forEachParagraph(function (index) {
700                 var parIndex = index + sc.startIndex;
701                 var classes = ["readline"];
702                 if (parIndex in pars && 'readStatus' in
703 pars[parIndex]) {
704                     classes.push(pars[parIndex].readStatus);
705                 } else {
706                     classes.push("unread");
707                 }
708                 var $div = $("

", {
709                     class: classes.join(" "),
710                     title: "Click to mark this paragraph as
711 read"
712                 });
713                 $(this).append($div);
714             });
715             }).error(function () {
716                 $window.alert("Could not fetch reading info.");
717             });
718     };
719
720     sc.setHeaderLinks = function () {
721         $(".par h1, .par h2, .par h3, .par h4, .par h5, .par
722 h6").each(function () {
723             var $par = $(this).parent();
724             $par.append($("<a>", {
725                 text: '#',
726                 href: '#' + $(this).attr('id'),
727                 class: 'headerlink',
728                 title: 'Permanent link'
729             }));
730         });
731     };
732
733     // Index-related functions
734
735     sc.totext = function (str) {
736         if (str.indexOf('{') > 0) {


```



```

790         else if (parentEntry !== null) {
791             if (!("items" in parentEntry)) {
792                 // For IE
793                 parentEntry.items = [];
794             }
795             parentEntry.items.push(entry);
796         }
797     }
798 }
799
800     if (parentEntry !== null) {
801         if (parentEntry.items.length > 0) {
802             parentEntry.state = 'col';
803         }
804         sc.indexTable.push(parentEntry);
805     }
806     }).error(function () {
807         $window.alert("Could not fetch index entries.");
808     });
809 };
810
811 sc.invertState = function (state) {
812     if (state === 'exp') {
813         return 'col';
814     }
815     if (state === 'col') {
816         return 'exp';
817     }
818     return state;
819 };
820
821 sc.clearSelection = function () {
822     if ($document.selection) {
823         $document.selection.empty();
824     }
825     else if ($window.getSelection) {
826         $window.getSelection().removeAllRanges();
827     }
828 };
829
830 sc.invertStateClearSelection = function (event, state) {
831     if (event.which !== 1) {
832         // Listen only to the left mouse button
833         return state;
834     }
835     if (event.target.className === 'a2' ||
event.target.className === 'a3') {
836         // Do not collapse/expand if a subentry is clicked
837         return state;
838     }
839
840     var newState = sc.invertState(state);
841     if (newState !== state) {
842         sc.clearSelection();
843     }
844     return newState;
845 };
846
847 if (sc.lectureMode) {
848     sc.$on("getQuestions", function () {
849         if (sc.firstTimeQuestions) {

```

```

850         sc.getQuestions();
851         sc.firstTimeQuestions = false;
852     }
853     });
854
855     sc.$on("closeQuestionPreview", function () {
856         sc.showQuestionPreview = false;
857         //sc.clearQuestion();
858     });
859 }
860
861 // Load index, notes and read markings
862 sc.setHeaderLinks();
863 sc.indexTable = [];
864 sc.getIndex();
865 sc.getNotes();
866 sc.getReadPars();
867 sc.processAllMath($('body'));
868 sc.defaultAction = sc.showOptionsWindow;
869 }
870 ])
871 ;
872
873 /**
874  * Controller for creating and editing questions
875  * @module questionController
876  * @author Matias Berg
877  * @author Bek Eljurkaev
878  * @author Minna Lehtomäki
879  * @author Juhani Sihvonen
880  * @author Hannu Viinikainen
881  * @licence MIT
882  * @copyright 2015 Timppa project authors
883  */
884
885 timApp.controller("QuestionController", ['$scope', '$http',
886 '$window', '$rootScope', function (scope, http, $window, $rootScope) {
887     "use strict";
888     $(function () {
889         $('#calendarStart').datepicker({dateFormat: 'dd.m.yy'});
890     });
891
892     scope.putBackQuotations = function(x){
893         return x.replace(/&quot;/g, '');
894     };
895
896     scope.$on("editQuestion", function (event, data) {
897         var id = data.question_id;
898         var json = data.json;
899
900         if (id) scope.question.question_id = id;
901         if (json["TITLE"]) scope.question.title =
scope.putBackQuotations(json["TITLE"]);
902         if (json["QUESTION"]) scope.question.question =
scope.putBackQuotations(json["QUESTION"]);
903         if (json["TYPE"]) scope.question.type = json["TYPE"];
904         if (json["MATRIXTYPE"]) scope.question.matrixType =
json["MATRIXTYPE"];
905         if (json["ANSWERFIELDTYPE"])
scope.question.answerFieldType = (json["ANSWERFIELDTYPE"]);
906     });

```

```

906
907     var jsonData = json["DATA"];
908     var jsonHeaders = jsonData["HEADERS"];
909     var jsonRows = jsonData["ROWS"];
910
911     var columnHeaders = [];
912     for (var i = 0; i < jsonHeaders.length; i++) {
913         columnHeaders[i] = {
914             id: i,
915             type: jsonHeaders[i].type,
916             text:
scope.putBackQuotations(jsonHeaders[i].text)
917         };
918     }
919     scope.columnHeaders = columnHeaders;
920
921     var rows = [];
922     for (var i = 0; i < jsonRows.length; i++) {
923         rows[i] = {
924             id: jsonRows[i].id,
925             text:
scope.putBackQuotations(jsonRows[i].text),
926             type: jsonRows[i].type,
927             value: jsonRows[i].value
928         };
929
930
931         var jsonColumns = jsonRows[i]["COLUMNS"];
932         var columns = [];
933         for (var j = 0; j < jsonColumns.length; j++) {
934             columns[j] = {
935                 id: j,
936                 rowId: i,
937                 text: jsonColumns[j].text,
938                 //points: jsonColumns[j].points,
939                 type: jsonColumns[j].type,
940                 answerFiledType:
jsonColumns[j].answerFieldType
941             };
942             if (jsonColumns[j].points) {
943                 columns[j].points = jsonColumns[j].points;
944             } else {
945                 columns[j].points = "";
946             }
947
948         }
949
950         rows[i].columns = columns;
951     }
952     scope.rows = rows;
953
954     if (json["TIMELIMIT"] && json["TIMELIMIT"] > 0) {
955         var time = json["TIMELIMIT"];
956         scope.question.endTimeSelected = true;
957         if (time > 3600) {
958             scope.question.timeLimit.hours =
Math.floor(time / 3600);
959             time = time % 3600;
960         } else {
961             scope.question.timeLimit.hours = 0;
962

```

```

963         }
964
965         if (time > 60) {
966             scope.question.timeLimit.minutes =
Math.floor(time / 60);
967             time = time % 60;
968         } else {
969             scope.question.timeLimit.minutes = 0;
970         }
971
972         if (time > 0) {
973             scope.question.timeLimit.seconds = time;
974         } else {
975             scope.question.timeLimit.seconds = 0;
976         }
977
978     } else {
979         scope.question.endTimeSelected = false;
980     }
981
982     scope.toggleQuestion();
983
984 }
985 );
986
987
988 scope.question = {
989     title: "",
990     question: "",
991     matrixType: "",
992     answerFieldType: "",
993     timeLimit: {hours: "0", minutes: "0", seconds: "30"},
994     endTimeSelected: true
995 };
996
997
998
999 scope.rows = [];
1000 scope.columns = [];
1001 scope.columnHeaders = [];
1002 scope.answerDirection = "horizontal";
1003 scope.question.timeLimit.seconds = 30;
1004 scope.error_message = "";
1005 scope.answerFieldTypes = [
1006
1007     {label: "Text area", value: "textArea"},
1008     {label: "Radio Button horizontal", value: "radiobutton-
horizontal"},
1009     {label: "Checkbox", value: "checkbox"}
1010 ];
1011
1012 /**
1013  * A function for creating a matrix.
1014  * @memberof module:questionController
1015  * @param rowCount The number of rows to create for the
matrix.
1016  * @param columnsCount The number of columns to create for new
matrix.
1017  * @param type The answer type of the matrix.
1018  */
1019 scope.createMatrix = function (type) {

```

```

1020     var rowCount = 0;
1021     var columnsCount = 0;
1022     if (type === 'matrix' || type === 'true-false') {
1023         rowCount = 2;
1024         columnsCount = 2;
1025     } else {
1026         rowCount = 2;
1027         columnsCount = 1;
1028     }
1029
1030     if (scope.rows.length < 1) {
1031         for (var i = 0; i < rowCount; i++) {
1032             scope.addRow(i);
1033         }
1034     }
1035
1036
1037     if (type === 'radio-vertical' || 'true-false')
scope.question.answerFieldType = 'radio';
1038     if (type === 'checkbox-vertical')
scope.question.answerFieldType = 'checkbox';
1039     if (type === 'matrix') {
1040         scope.question.answerFieldType = 'matrix';
1041     }
1042
1043     for (var i = 0; i < scope.rows.length; i++) {
1044         if (scope.rows[i].columns.length > columnsCount)
scope.rows[i].columns.splice(columnsCount,
scope.rows[i].columns.length);
1045         if (scope.rows[i].columns.length < columnsCount)
scope.addRow(scope.rows[0].columns.length);
1046         for (var j = 0; j < scope.rows[i].columns.length; j++)
{
1047             scope.rows[j].columns.answerFieldType =
scope.question.answerFieldType;
1048         }
1049     }
1050
1051     scope.columnHeaders = [];
1052     if (type === 'matrix') {
1053         for (var i = 0; i < scope.rows[0].columns.length; i++)
{
1054             scope.columnHeaders[i] = {
1055                 id: i,
1056                 text: "",
1057                 type: 'header'
1058             };
1059         }
1060     }
1061
1062
1063     /*         if (scope.question.type != type ||
scope.rows.length <= 0) {
1064         scope.question.type = type;
1065
1066         if (type === 'radio-vertical' || 'true-false')
scope.question.answerFieldType = 'radio';
1067         else if (type === 'checkbox-vertical')
scope.question.answerFieldType = 'checkbox';
1068         else if (type === 'matrix')
scope.question.answerFieldType = 'matrix';

```

```

1069
1070
1071
1072     var i;
1073     if (scope.rows.length > 0) {
1074         scope.columnHeaders.splice(0,
scope.columnHeaders.length);
1075         for (i = 0; i < scope.rows.length; i++) {
1076             scope.rows[i].columns.splice(0,
scope.rows[i].columns.length);
1077         }
1078
1079         for (i = 0; i < columnsCount; i++) {
1080             scope.addCol(i);
1081         }
1082
1083     } else {
1084
1085         var columnHeaders = [];
1086         for (i = 0; i < rowsCount; i++) {
1087             var columns = [];
1088             columnHeaders = [];
1089             for (var j = 0; j < columnsCount; j++) {
1090                 columnHeaders.push({type: "header", id: j, text: ""});
1091                 columns[j] = {
1092                     id: j,
1093                     rowId: i,
1094                     text: '',
1095                     points: '',
1096                     type: "answer",
1097                     answerFiledType: scope.question.answerFieldType
1098                 };
1099             }
1100             scope.rows[i] = {
1101                 id: i,
1102                 text: '',
1103                 type: 'question',
1104                 value: '',
1105                 columns: columns
1106             };
1107
1108         }
1109         scope.columnHeaders = columnHeaders;
1110
1111     }
1112     scope.columnHeaders.splice(columnsCount,
scope.columnHeaders.length);
1113     }*/
1114 };
1115
1116 /*     */
1117 /**
1118  * A function handling rowClick
1119  * @memberof module:questionController
1120  * @param index FILL WITH SUITABLE TEXT
1121  */
1122 /*
1123     scope.rowClick = function (index) {
1124         scope.addRow(index);
1125     };*/
1126

```

```

1127     /**
1128     * A function to add a column to an existing matrix.
1129     * @memberof module:questionController
1130     * @param loc The index in the matrix where to add the new
column.
1131     */
1132     scope.addCol = function (loc) {
1133         var location = loc;
1134         if (loc === -1) {
1135             location = scope.rows[0].columns.length;
1136             loc = scope.rows[0].columns.length;
1137         }
1138         scope.columnHeaders.splice(loc, 0, {type: "header", id:
loc, text: ""});
1139         //add new column to columns
1140         for (var i = 0; i < scope.rows.length; i++) {
1141
1142             scope.rows[i].columns.splice(loc, 0, {
1143                 id: location,
1144                 rowId: i,
1145                 text: '',
1146                 points: '',
1147                 type: "answer",
1148                 answerFiledType: scope.question.answerFieldType
1149             });
1150         }
1151
1152
1153     };
1154
1155     /**
1156     * The function adds a row to an existing matrix
1157     * @memberof module:questionController
1158     * @param loc The index in the matrix where to add the new
row.
1159     */
1160     scope.addRow = function (loc) {
1161
1162         scope.CreateColumnsForRow = function (location) {
1163             var columns = [];
1164             if (scope.rows.length > 0) {
1165                 for (var j = 0; j < scope.rows[0].columns.length;
j++) {
1166                     columns[j] = {
1167                         id: j,
1168                         rowId: location,
1169                         type: "answer",
1170                         value: '',
1171                         answerFiledType:
scope.question.answerFieldType,
1172                         points: ""
1173                     };
1174                 }
1175             }
1176             return columns;
1177         };
1178     };
1179
1180     var location = loc;
1181     if (loc === -1) {
1182         location = scope.rows.length;

```



```

1183         loc = scope.rows.length;
1184     }
1185
1186     var columns = scope.CreateColumnsForRow(location);
1187     scope.rows.splice(loc, 0,
1188     {
1189         id: location,
1190         text: "",
1191         type: "question",
1192         value: "",
1193         columns: columns
1194     });
1195
1196     for (var i = 0; i < scope.rows.length; i++) {
1197         scope.rows[i].id = i;
1198     }
1199
1200
1201 };
1202
1203 /**
1204  * A function to delete a row from a matrix.
1205  * @memberof module:questionController
1206  * @param indexToBeDeleted The index of the row to be deleted.
1207  */
1208 scope.delRow = function (indexToBeDeleted) {
1209     scope.error_message = "";
1210     if (scope.rows.length > 1) {
1211         if (indexToBeDeleted === -1) {
1212             scope.rows.splice(-1, 1);
1213         }
1214         else {
1215             scope.rows.splice(indexToBeDeleted, 1);
1216         }
1217     } else {
1218         scope.errorize("", "You cannot have an empty table.");
1219     }
1220
1221 };
1222
1223 /**
1224  * A function to delete a column from a matrix.
1225  * @memberof module:questionController
1226  * @param indexToBeDeleted Index of the column to be deleted.
1227  */
1228 scope.delCol = function (indexToBeDeleted) {
1229     for (var i = 0; i < scope.rows.length; i++) {
1230         if (indexToBeDeleted === -1) {
1231             scope.rows[i].columns.splice(-1, 1);
1232         }
1233         else {
1234             scope.rows[i].columns.splice(indexToBeDeleted, 1);
1235         }
1236     }
1237     if (indexToBeDeleted === -1) {
1238         scope.columnHeaders.splice(-1, 1);
1239     }
1240     else {
1241         scope.columnHeaders.splice(indexToBeDeleted, 1);
1242     }
1243

```

```

1244     };
1245
1246     /**
1247     * A function to reset the question values.
1248     * @memberof module:questionController
1249     */
1250     scope.clearQuestion = function () {
1251         scope.question = {
1252             title: "",
1253             question: "",
1254             matrixType: "",
1255             answerFieldType: "",
1256             timeLimit: {hours: "0", minutes: "0", seconds: "30"},
1257             endTimeSelected: true
1258         };
1259
1260         scope.rows = [];
1261         scope.answer = "";
1262         scope.columnHeaders = [];
1263         //scope.toggleQuestion();
1264     };
1265
1266     /**
1267     * A function to close question edition form.
1268     * @memberof module:questionController
1269     */
1270     scope.close = function () {
1271         scope.removeErrors();
1272         scope.clearQuestion();
1273         if (scope.questionShown) scope.toggleQuestion();
1274     };
1275
1276     /**
1277     * The function replaces linebreaks with HTML code.
1278     * @memberof module:questionController
1279     * @param val The input string
1280     * @returns {*} The reformatted line.
1281     */
1282     scope.replaceLinebreaksWithHTML = function (val) {
1283         var output = val.replace(/(?:\r\n|\r|\n)/g, '<br />');
1284         output = output.replace(/"/g, '&quot;');
1285         return output.replace(/\\/g, "\\");
1286     };
1287
1288     /**
1289     * The function to highlight the source of the errors for a
1290     given ID.
1291     * @memberof module:questionController
1292     * @param div_val ID of the element to be errorized.
1293     * @param error_text Description of the occurred error.
1294     */
1295     scope.errorize = function (div_val, error_text) {
1296         angular.element("#" + div_val).css('border', "1px solid
red");
1297         if (error_text.length > 0) {
1298             scope.error_message += error_text + "<br />";
1299         }
1300     };
1301
1302     /**
1303     * The function to highlight the source of the errors for a

```

```

given class.
1303     * @memberof module:questionController
1304     * @param div_val Class of the element to be errorized.
1305     * @param error_text Description of the occurred error.
1306     */
1307     scope.errorizeClass = function (div_val, error_text) {
1308         angular.element("." + div_val).css('border', "1px solid
red");
1309         if (error_text.length > 0) {
1310             scope.error_message += error_text + "<br />";
1311         }
1312     };
1313
1314     /**
1315     * Removes border of a given element.
1316     * @memberof module:questionController
1317     * @param element ID of the field whose border will be
removed.
1318     */
1319     scope.defInputStyle = function (element) {
1320         if (element !== null || !element.isDefined) {
1321             angular.element("#" + element).css("border", "");
1322         }
1323     };
1324
1325     /**
1326     * Calls defInputStyle for all the form elements.
1327     * @memberof module:questionController
1328     */
1329     scope.removeErrors = function () {
1330         scope.error_message = "";
1331         var elementsToRemoveErrorsFrom = [
1332             "questionName",
1333             "questionTiming",
1334             "questionStart",
1335             "questionTimer",
1336             "qType",
1337             "matrix",
1338             "durationSec",
1339             "durationHour",
1340             "durationMin",
1341             "durationDiv"
1342         ];
1343         for (var i = 0; i < elementsToRemoveErrorsFrom.length;
i++) {
1344             if (elementsToRemoveErrorsFrom[i] !== undefined) {
1345                 scope.defInputStyle(elementsToRemoveErrorsFrom[i]);
1346             }
1347         }
1348         angular.element(".rowHeading").css("border", "");
1349     };
1350
1351     /**
1352     * Function for checking if the row headings are empty.
1353     * @memberof module:questionController
1354     * @param rows The array of rows to be checked.
1355     * @returns {boolean} Whether or not the row headings are
empty.
1356     */
1357     scope.rowHeadingsEmpty = function (rows) {

```

```

1358         for (var i = 0; i < rows.length; i++) {
1359             if (rows[i].text === "" || rows[i].text === null) {
1360                 return true;
1361             }
1362         }
1363         return false;
1364     };
1365
1366     /**
1367     * Checks if a value is a positive number and makes the
appropriate errors if this is not the case.
1368     * @memberof module:questionController
1369     * @param element The value to be checked.
1370     * @param val The id of the value, which is used in case the
number is not positive.
1371     */
1372     scope.isPositiveNumber = function (element, val) {
1373         if (element === "" || isNaN(element) || element < 0) {
1374             scope.errorize(val, "Number has to be positive.");
1375         }
1376     };
1377
1378     /**
1379     * Validates and saves the question into the database.
1380     * @memberof module:questionController
1381     */
1382     scope.createQuestion = function () {
1383
1384         scope.removeErrors();
1385         if (scope.question.question === undefined ||
scope.question.question.trim().length === 0 || scope.question.title ===
undefined || scope.question.title.trim().length === 0) {
1386             scope.errorize("questionName", "Both title and
question are required for a question.");
1387         }
1388         if (scope.question.type === undefined) {
1389             scope.errorize("qType", "Question type must be
selected.");
1390         } else if (scope.question.type === "matrix" &&
(scope.question.matrixType === undefined || scope.question.matrixType
=== "")) {
1391             scope.errorize("check", "Answer type must be
selected.");
1392         } else if ((scope.question.type === "radio-vertical" ||
scope.question.type === "checkbox-vertical" ||
scope.question.type === "true-false") &&
scope.rowHeadingsEmpty(scope.rows)) {
1393             scope.errorizeClass("rowHeading", "All rows must be
filled in.");
1394         }
1395         if (scope.rows.length > 0) {
1396             if ((scope.question.type === "radio-vertical" ||
scope.question.type === "checkbox-vertical") && scope.rows.length < 2) {
1397                 scope.errorize("matrix", "You must have at least
two choices.");
1398             }
1399         } else if (scope.question.type !== undefined) {
1400             scope.errorize("matrix", "You must have at least one
row.");
1401         }
1402     };
1403
1404     var timeLimit = "";

```

```

1406         if (scope.question.endTimeSelected) {
1407             if (scope.question.timeLimit.hours === "") {
1408                 scope.question.timeLimit.hours = 0;
1409             }
1410             if (scope.question.timeLimit.minutes === "") {
1411                 scope.question.timeLimit.minutes = 0;
1412             }
1413             if (scope.question.timeLimit.seconds === "") {
1414                 scope.question.timeLimit.seconds = 0;
1415             }
1416             scope.isPositiveNumber(scope.question.timeLimit.hours,
"durationHour");
1417         scope.isPositiveNumber(scope.question.timeLimit.minutes, "durationMin");
1418         scope.isPositiveNumber(scope.question.timeLimit.seconds, "durationSec");
1419             timeLimit = 0;
1420             timeLimit = parseInt(timeLimit) +
parseInt(scope.question.timeLimit.seconds);
1421             if (scope.question.timeLimit.hours) {
1422                 timeLimit = parseInt(timeLimit) +
(scope.question.timeLimit.hours * 60 * 60);
1423             }
1424             if (scope.question.timeLimit.minutes) {
1425                 timeLimit = parseInt(timeLimit) +
(scope.question.timeLimit.minutes * 60);
1426             }
1427             if (timeLimit <= 0) {
1428                 scope.errorize("durationDiv", "Please enter a
duration greater then zero or for unending question uncheck the duration
box.");
1429             }
1430         } else {
1431             timeLimit = "";
1432         }
1433     }
1434     if (scope.error_message !== "") {
1435         return;
1436     }
1437
1438     if (scope.question.type === 'matrix') {
1439
1440         if (scope.question.matrixType === "radiobutton-
horizontal" || scope.question.matrixType === "radiobutton-vertical") {
1441             scope.question.answerFieldType = "radio";
1442         }
1443
1444         if (scope.question.matrixType === "textArea") {
1445             scope.question.answerFieldType = "text";
1446         }
1447         if (scope.question.matrixType === "checkbox") {
1448             scope.question.answerFieldType = "checkbox";
1449         }
1450     }
1451     var doc_id = scope.docId;
1452     var $par = scope.par;
1453     var par_index = scope.getParIndex($par);
1454
1455     //TODO use JSON.stringify
1456
1457

```

```

1458         scope.question.question =
scope.replaceLinebreaksWithHTML(scope.question.question);
1459         scope.question.title =
scope.replaceLinebreaksWithHTML(scope.question.title);
1460
1461         var questionJson = '{"QUESTION": "' +
scope.question.question + '", "TITLE": "' + scope.question.title + '",
"TYPE": "' + scope.question.type + '", "ANSWERFIELDTYPE": "' +
scope.question.answerFieldType + '", "MATRIXTYPE": "' +
scope.question.matrixType + '", "TIMELIMIT": "' + timeLimit + '",
"DATA": {';
1462
1463         var testJson = JSON.stringify(scope.question);
1464         testJson += JSON.stringify(scope.columnHeaders);
1465
1466         questionJson += '"HEADERS" : [';
1467         var i;
1468         if (scope.question.type === "matrix") {
1469             for (i = 0; i < scope.columnHeaders.length; i++) {
1470                 questionJson += '{';
1471                 questionJson += '"type":"' +
scope.columnHeaders[i].type + '",';
1472                 questionJson += '"id":"' +
scope.columnHeaders[i].id + '",';
1473                 questionJson += '"text":"' +
scope.replaceLinebreaksWithHTML(scope.columnHeaders[i].text) + '"';
1474                 questionJson += '},';
1475             }
1476             if (i > 0) {
1477                 questionJson = questionJson.substring(0,
questionJson.length - 1);
1478             }
1479             questionJson += ']';
1480             questionJson += ',';
1481         } else {
1482             questionJson += "],";
1483         }
1484
1485         questionJson += '"ROWS" : [';
1486         for (i = 0; i < scope.rows.length; i++) {
1487             questionJson += '{';
1488             questionJson += '"id":"' + scope.rows[i].id + '",';
1489             questionJson += '"type":"' + scope.rows[i].type +
"',';
1490             questionJson += '"text":"' +
scope.replaceLinebreaksWithHTML(scope.rows[i].text) + '",';
1491             questionJson += '"COLUMNS" : [';
1492             for (var j = 0; j < scope.rows[i].columns.length; j++)
{
1493                 questionJson += '{';
1494                 questionJson += '"id":"' +
scope.rows[i].columns[j].id + '",';
1495                 questionJson += '"rowId":"' +
scope.rows[i].columns[j].rowId + '",';
1496                 questionJson += '"type":"' +
scope.rows[i].columns[j].type + '",';
1497                 if (scope.question.answerFieldType !== "text") {
1498                     questionJson += '"points":"' +
scope.rows[i].columns[j].points + '",';
1499                 } else {
1500                     questionJson += '"points":"' + "" + '",';

```

```

1501         }
1502         questionJson += "answerFieldType":"" +
scope.question.answerFieldType + "";
1503         questionJson += '},';
1504     }
1505
1506     if (j > 0) {
1507         questionJson = questionJson.substring(0,
questionJson.length - 1);
1508     }
1509     questionJson += ']';
1510     questionJson += '},';
1511
1512     }
1513     if (i > 0) {
1514         questionJson = questionJson.substring(0,
questionJson.length - 1);
1515     }
1516     questionJson += ']';
1517     questionJson += '}}';
1518
1519     var rn = "?_=" + Date.now();
1520
1521     http({
1522         method: 'POST',
1523         url: '/addQuestion/' + rn,
1524         params: {
1525             'question_id': scope.question.question_id,
1526             'question_title': scope.question.title,
1527             'answer': "test", //answerVal,
1528             'par_index': par_index,
1529             'doc_id': doc_id,
1530             'questionJson': questionJson
1531         }
1532     })
1533     .success(function () {
1534         $window.console.log("The question was successfully
added to database");
1535         scope.removeErrors();
1536         //scope.clearQuestion();
1537         //TODO: This can be optimized to get only the new
one.
1538         scope.$parent.getQuestions();
1539         scope.close();
1540     })
1541     .error(function () {
1542         $window.console.log("There was some error creating
question to database.");
1543     });
1544 };
1545
1546     scope.deleteQuestion = function () {
1547         var confirmDi = $window.confirm("Are you sure you want to
delete this question?");
1548         if (confirmDi) {
1549             http({
1550                 url: '/deleteQuestion',
1551                 method: 'POST',
1552                 params: {question_id: scope.qId, doc_id:
scope.docId}
1553             })

```

```
1554     .success(function () {
1555         $window.console.log("Deleted question done!");
1556         //location.reload();
1557         scope.close();
1558         //scope.clearQuestion();
1559         scope.getQuestions();
1560     })
1561     .error(function (error) {
1562
1563         $window.console.log(error);
1564         scope.getQuestions();
1565
1566     });
1567
1568     }
1569     };
1570 }]);
```