

Use Cases

for

TIM

Version 0.1

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Timppa project

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Revision History

Name	Date	Reason For Changes	Version
Bek Eljurkaev	26.02.2015	Initial draft	0.1 draft 1

1. Use Case List

The various user classes identified the following use cases and primary actors for TIM system.

Primary Actor	Use Cases
Teacher	<ol style="list-style-type: none">1. Create a lecture2. Start a lecture3. Prepare a question4. Ask a question
Student	<ol style="list-style-type: none">1. Log into a lecture2. Answer a question3. Follow the teacher4. Ask a question on the lecture wall

2. Use Cases

Use case ID	1
Use case name	<i>Creating a lecture</i>
Created by	<i>Bek Eljurkaev</i>
Date Created	26.2.2015
Actors	<i>Teacher</i>
Description	<i>Teacher creates a lecture event which might take place immediately or anytime later.</i>
Preconditions	<ol style="list-style-type: none"> 1. <i>User is logged in.</i> 2. <i>User has teacher's rights for the course he is willing to create a lecture for.</i>
Postconditions	
Normal flow	<ol style="list-style-type: none"> 1. <i>System shows a list of active courses. (Exception 1)</i> 2. <i>User selects a course from the list.</i> 3. <i>System shows the content of selected course, including lecture sessions in their own subfolder.</i> 4. <i>User clicks the "Lectures" folder.</i> 5. <i>System shows the list of lecture events previously created and a button to create a new lecture. (Exception 2) (Alternative flow 1.1)</i> 6. <i>User clicks the "New lecture" button.</i> 7. <i>System shows a pop-up window with a form to be filled with the information required: lecture code (name), starting time, ending time.</i> 8. <i>User fills in the required information and pushes "Submit" button. (Alternative flow 1.2)</i> 9. <i>System gives a feedback by dismissing the pop-up window and highlighting the recently created lecture in the list of lectures.</i>
Alternative flows	<p>Alternative flow 1.1 (branch after step 5)</p> <ol style="list-style-type: none"> 1. <i>User selects a lecture previously created.</i> 2. <i>System lists the events of the lecture. (Exception 3)</i> <p>Alternative flow 1.2 (branch after step 8)</p> <ol style="list-style-type: none"> 3. <i>User changes his mind and pushes the "X" button of the pop-up window.</i> 4. <i>Pop-up window dismisses, no changes saved.</i>
Exceptions	<ol style="list-style-type: none"> 1. <i>No active courses in the system.</i> 2. <i>No lectures previously created for the course.</i> 3. <i>No events related to the lecture.</i>

Includes	
Priority	<i>High</i>
Frequency of use	<i>Once per lecture.</i>
Business rules	
Special requirements	
Assumptions	<ol style="list-style-type: none">1. <i>The user who creates a course has teacher's rights for the course materials and is able to grant the same rights to another user(s).</i>
Notes and issues	

Use case ID	2
Use case name	<i>Starting a lecture</i>
Created by	<i>Bek Eljurkaev</i>
Date Created	<i>26.2.2015</i>
Actors	<i>Teacher</i>
Description	<i>Teacher starts a lecture previously created.</i>
Preconditions	<ol style="list-style-type: none"> 1. <i>User is logged in.</i> 2. <i>System has active courses previously created.</i> 3. <i>The course has at least one lecture event previously created.</i> 4. <i>User has teacher's rights for a course he is willing to create a lecture for.</i>
Postconditions	
Normal flow	<ol style="list-style-type: none"> 1. <i>System shows a list of active courses.</i> 2. <i>User selects a course from the list.</i> 3. <i>System shows the content of selected course, including lecture sessions in their own subfolder.</i> 4. <i>User clicks the "Lectures" folder.</i> 5. <i>System shows the list of lecture events previously created and a button to create a new lecture.</i> 6. <i>User chooses and clicks a lecture from the list.</i> 7. <i>System shows the events and other information related to the lecture and the "Start lecture" button (Exception 1)</i> 8. <i>System adds the lecture to the list of active lectures so the students are able to log in. The teacher's client is redirected to the course's main page.</i>
Alternative flows	
Exceptions	<ol style="list-style-type: none"> 1. <i>No events related to the lecture.</i>
Includes	
Priority	<i>High</i>
Frequency of use	<i>Once per lecture.</i>
Business rules	
Special requirements	
Assumptions	

Notes and issues	
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Use case ID	3
Use case name	<i>Preparing a question</i>
Created by	<i>Bek Eljurkaev</i>
Date Created	26.2.2015
Actors	<i>Teacher</i>
Description	<i>Teacher prepares a question for a particular lecture.</i>
Preconditions	<ol style="list-style-type: none"> 1. <i>User is logged in.</i> 2. <i>User has teacher's rights for the course/lecture.</i> 3. <i>Users has the lecture event open for editing.</i>
Postconditions	
Normal flow	<ol style="list-style-type: none"> 1. <i>System shows a list of events related to the lecture and a button to add a new question.</i> 2. <i>User clicks the "Add new question" button.</i> 3. <i>System shows the question editor form in a pop-up window: question text, question type, possible answers, points for the answers, time limit.</i> 4. <i>User fills in the required information and clicks "Submit" button.</i> 5. <i>System dismisses the pop-up window and highlights the created question in the lecture event list. (Exception 2)</i>
Alternative flows	
Exceptions	<ol style="list-style-type: none"> 1. <i>No events related to the lecture.</i> 2. <i>Invalid input.</i>
Includes	
Priority	<i>High</i>
Frequency of use	<i>Varies</i>
Business rules	
Special requirements	
Assumptions	

Notes and issues	
Use case ID	4
Use case name	<i>Asking a question</i>
Created by	<i>Bek Eljurkaev</i>
Date Created	26.2.2015
Actors	<i>Teacher</i>
Description	<i>Teacher asks a question at a lecture.</i>
Preconditions	<ol style="list-style-type: none"> 1. <i>User is logged in.</i> 2. <i>User has teacher's rights for the course/lecture.</i> 3. <i>User is logged into an active lecture.</i>
Postconditions	
Normal flow	<ol style="list-style-type: none"> 1. <i>Teacher clicks the "Ask" button located on the top bar of the teacher's interface.</i> 2. <i>System shows the question editor form in a pop-up window: question text, question type, possible answers, points for the answers, time limit. (Alternative flow 1.1)</i> 3. <i>Teacher fills in the required information.</i> 4. <i>Teacher clicks the "Ask" button.</i> 5. <i>System dismisses the question editor's window and opens another pop-up window visualising students' answers in real time.</i> 6. <i>When done, teacher closes the window and continues the lecture.</i>
Alternative flows	<p>Alternative flow 1.1 (branch after step 2)</p> <ol style="list-style-type: none"> 1. <i>Teachers clicks "Prepared questions" button.</i> 2. <i>Systems lists the questions previously prepared.</i> 3. <i>Teachers clicks a question from the list.</i> 4. <i>System loads the question into the question editor so the teacher can make final adjustments if needed before asking the question.</i> 5. <i>Normal flow from step 4.</i>
Exceptions	
Includes	

Priority	<i>High</i>
Frequency of use	<i>Varies</i>
Business rules	
Special requirements	
Assumptions	
Notes and issues	

Use case ID	5
Use case name	<i>Log into a lecture</i>
Created by	<i>Bek Eljurkaev</i>
Date Created	26.2.2015
Actors	<i>Student</i>
Description	<i>Student logs into an active lecture.</i>
Preconditions	<ol style="list-style-type: none"> 1. <i>User is logged in.</i> 2. <i>User has the right to participate the lecture.</i> 3. <i>Lecture is active.</i>
Postconditions	
Normal flow	<ol style="list-style-type: none"> 1. <i>System shows a list of lectures.</i> 2. <i>User clicks the desired lecture.</i> 3. <i>System shows the information regarding the lecture and provides a function to join the lecture, if possible.</i> 4. <i>User clicks the "Join" button.</i> 5. <i>System redirects the user to the course's material page.</i>
Alternative flows	
Exceptions	
Includes	
Priority	<i>High</i>
Frequency of use	<i>Varies</i>
Business rules	
Special requirements	
Assumptions	
Notes and issues	

Use case ID	6
Use case name	<i>Answering a question</i>
Created by	<i>Bek Eljurkaev</i>
Date Created	<i>26.2.2015</i>
Actors	<i>Student</i>
Description	<i>Student answers the question asked by the teacher.</i>
Preconditions	<i>1. User is logged into an ongoing lecture.</i>
Postconditions	
Normal flow	<ol style="list-style-type: none"> <i>1. A pop-up window with a question appears on the users screen. (Alternative flow 1.1)</i> <i>2. User fills the question form and clicks the "Submit" button. (Exception 1)</i> <i>3. System sends the answer to the server and dismisses the question window.</i>
Alternative flows	<p>Alternative flow 1.1 (branch after step 1)</p> <ol style="list-style-type: none"> <i>1. User answers the question and leaves the question window open.</i> <i>2. System automatically sends the answer to the server when the question's time limit is reached and automatically dismisses the question window.</i>
Exceptions	<i>1. User leaves the question form blank → unanswered ++</i>
Includes	
Priority	<i>High</i>
Frequency of use	<i>Varies</i>
Business rules	
Special requirements	
Assumptions	
Notes and issues	

Use case ID	7
Use case name	<i>Following the teacher</i>
Created by	<i>Bek Eljurkaev</i>
Date Created	26.2.2015
Actors	<i>Student binds his client to follow the teacher in the material.</i>
Description	<i>Student.</i>
Preconditions	1. <i>User is logged into an ongoing lecture.</i>
Postconditions	
Normal flow	<ol style="list-style-type: none"> 1. <i>Users clicks the "Follow the teacher" button.</i> 2. <i>System redirects the user's browser to the part of the page which is currently displayed in the teacher's browser.</i>
Alternative flows	
Exceptions	
Includes	
Priority	<i>Medium</i>
Frequency of use	<i>Varies</i>
Business rules	
Special requirements	
Assumptions	1. <i>The server continuously tracks the teacher's position within the material.</i>
Notes and issues	1. <i>Easily undone with the same button.</i>