

```
package fi.paatti.mobile.views.eventview;

import com.vaadin.data.Item;
import com.vaadin.data.Property;
import com.vaadin.data.Property.ValueChangeEvent;
import com.vaadin.data.util.IndexedContainer;
import com.vaadin.data.util.sqlcontainer.SQLContainer;
import com.vaadin.terminal.ExternalResource;
import com.vaadin.ui.Alignment;
import com.vaadin.ui.Label;
import com.vaadin.ui.OptionGroup;
import com.vaadin.ui.Video;
import fi.paatti.mobile.applicationinfo.CssStyleNames;
import fi.paatti.mobile.applicationinfo.Resources;
import fi.paatti.mobile.mobileview.MobileView;
import fi.paatti.mobile.mobileview.MobileViewLogic;
import fi.paatti.mobile.paattiapplication.MobileViewHandler;
import fi.paatti.mobile.views.mobilecontentview.MobileContentView;
import fi.paatti.paattidatabaseutils.names.PaattiColumnNames;
import java.util.ArrayList;

/**
 * A view for an event.
 */
@author Jari Salokangas, jari.p.t.salokangas@student.jyu.fi
@author Lauri Satoakangas, lauri.n.satokangas@student.jyu.fi
*/
public class EventView extends MobileContentView {

    private static final long serialVersionUID = 1L;
    private final MobileViewHandler viewHandler;

    /**
     * The start of the event.
     */
    public static final int EVENT_START = 0;

    /**
     * The middle of the event.
     */
    public static final int EVENT_MIDDLE = 1;

    /**
     * The end of the event.
     */
}
```

```
*/
public static final int EVENT_END = 2;
// TODO: Task types should be taken from database TASKTYPE-table.
private final int TASKTYPE_TEXT = 1;
private final int TASKTYPE_RADIO = 2;
private final int TASKTYPE_SENSOR = 3;
private final int TASKTYPE_AUDIO = 4;
private final int TASKTYPE_VIDEO = 5;
private final int TASKTYPE_SLIDER = 6;
//
private OptionGroup choiceOptionGroup;
private Label descriptionLabel;
private Label contentLabel;
private EventViewLogic eventViewLogic;
private int selectedChoiceID;
private int currentTaskID;
private ArrayList<TaskChoiceChangeListener> listeners = new ArrayList<TaskChoiceChangeListener>();

/**
 * Constructor for event view.
 * <p/>
 * @param viewHandler
 */
public EventView(MobileViewHandler viewHandler) {
    this.viewhandler = viewHandler;
    this.setStyleName("eventview");
    createUi();
}

/**
 * Creates event list user interface. Sets views header text, content material and footer buttons.
 */
private void createUi() {
    // this.setSizeFull();
    choiceOptionGroup = new OptionGroup();
    choiceOptionGroup.setImmediate(true);
    choiceOptionGroup.setStyleName(CssStyleNames.TASKCHOICESOPTGROUP);
    choiceOptionGroup.addListener(
        new Property.ValueChangeListener() {

            private static final long serialVersionUID = 1L;

            @Override
            public void valueChange(ValueChangeEvent event) {
                viewhandler.setFooterButtonEnabled(FOOTER_BUTTON_RIGHT, true);
                if (event.getProperty().getValue() != null) {
```

```
Object id = event.getProperty().getValue();

selectedChoiceID = (Integer) choiceOptionGroup.getItem(id).getItemProperty(PaattiColumnNames.CHOICE_choiceID).getValue();
fireTaskChoiceChangeEvent();
    }
}
});

descriptionLabel = new Label();
contentLabel = new Label();
contentLabel.setReadOnly(true);
contentLabel.setContentMode(Label.CONTENT_XHTML);
this.setSpacing(true);
this.setMargin(true);
updateFooterAndHeader();
}

/**
 * Updates footer buttons according to the event phase.
 * <p/>
 * EVENT_START = 0 EVENT_MIDDLE = 1 EVENT_END = 2
 * <p/>
 * @param eventPhase The phase of the event.
 */
protected void updateFooter(int eventPhase) {
    if (eventPhase == EVENT_START) {
        viewHandler.setFooterButtonEnabled(MobileView.FOOTER_BUTTON_MIDDLE, false);
        viewHandler.setFooterButtonEnabled(MobileView.FOOTER_BUTTON_RIGHT, true);
    } else if (eventPhase == EVENT_MIDDLE) {
        viewHandler.setFooterButtonEnabled(MobileView.FOOTER_BUTTON_MIDDLE, true);
        viewHandler.setFooterButtonEnabled(MobileView.FOOTER_BUTTON_RIGHT, true);
        viewHandler.setFooterButtonIcon(MobileView.FOOTER_BUTTON_RIGHT,
            Resources.getThemeResource(Resources.ICON_ARROW_RIGHT_64));
    }
}

@Override
public void setContentViewLogic(MobileViewLogic logic) {
    this.eventViewLogic = (EventViewLogic) logic;
}

@Override
public void updateFooterAndHeader() {
    viewHandler.setFooterButtonIcon(MobileView.FOOTER_BUTTON_LEFT, Resources.getThemeResource(Resources.ICON_CANCEL_64));
}
```

```
viewhandler.setFooterButtonEnabled(MobileView.FOOTER_BUTTON_MIDDLE, false);
viewhandler.setFooterButtonIcon(MobileView.FOOTER_BUTTON_MIDDLE,
    Resources.getThemeResource(Resources.ICON_ARROW_LEFT_64));
viewhandler.setFooterButtonIcon(MobileView.FOOTER_BUTTON_RIGHT,
    Resources.getThemeResource(Resources.ICON_ARROW_RIGHT_64));
}

/**
 * Start a new event.
 * <p/>
 * @param taskContainer All the tasks that are in the event.
 * @param choiceContainer All the choices that are in tasks (that are in the event)
 * @param eventName The name of the event.
 */
public void startEvent(SQLContainer taskContainer, SQLContainer choiceContainer, String eventName) {
    this.selectedChoiceID = -1;
    this.currentTaskID = -1;
    viewhandler.setHeaderText(eventName);
    eventViewLogic.startEvent(taskContainer, choiceContainer);
}

/**
 * @param taskItem param taskChoices
 * @param taskChoices
 */
protected void setCurrentTask(Item taskItem, IndexedContainer taskChoices) {
    // Remove everything from the previous task.
    this.removeAllComponents();
    this.requestRepaint();
    viewhandler.setFooterButtonEnabled(FOOTER_BUTTON_RIGHT, false);

    // Set Task description as the datasource for the label.
    if (taskItem.getItemProperty(PaattiColumnNames.TASK_description) != null) {
        descriptionLabel = new Label(taskItem.getItemProperty(PaattiColumnNames.TASK_description).getValue().toString());
        descriptionLabel.setContentMode(Label.CONTENT_XHTML);
        this.addComponent(descriptionLabel);
    }

    // should never be null
    Integer taskType = Integer.parseInt(
        taskItem.getItemProperty(PaattiColumnNames.TASK_TASKTYPE_taskTypeID).getValue().toString());

    if (taskType.equals(TASKTYPE_TEXT)) {
        // If the tasktype is TEXT, there can only be one choice, and therefore only one item in the taskChoices.
    }
}
```

```
// The id of the choice-to-be-made can be taken from that item.
Item taskChoiceItem = taskChoices.getItem(taskChoices.firstItemId());
selectedChoiceID = (Integer) taskChoiceItem.getItemProperty(PaattiColumnNames.CHOICE_choiceID).getValue();

if (taskItem.getItemProperty(PaattiColumnNames.TASK_content).getValue() != null) {
    contentLabel = new Label(taskItem.getItemProperty(PaattiColumnNames.TASK_content).toString());
    contentLabel.setContentMode(Label.CONTENT_XHTML);
    this.addComponent(contentLabel);
}

fireTaskChoiceChangeEvent();
} else if (taskType.equals(TASKTYPE_RADIO)) {
    choiceOptionGroup.setContainerDataSource(taskChoices);
    choiceOptionGroup.setItemCaptionPropertyId(PaattiColumnNames.CHOICE_description);
    choiceOptionGroup.select(null);
    this.addComponent(choiceOptionGroup);
    this.setAlignment(choiceOptionGroup, Alignment.MIDDLE_LEFT);
    viewHandler.setFooterButtonEnabled(FooterButton.RIGHT, false);
} else if (taskType.equals(TASKTYPE_AUDIO) || taskType.equals(TASKTYPE_VIDEO) || taskType.equals(TASKTYPE_SENSOR)) {
    Object firstItemId = taskChoices.firstItemId();
    Item item = taskChoices.getItem(firstItemId);

    selectedChoiceID = (Integer) item.getItemProperty(PaattiColumnNames.CHOICE_choiceID).getValue();

    if (taskType.equals(TASKTYPE_SENSOR)) {
        // TODO: Do something appropriate with this task type.
        contentLabel.setPropertyDataSource(taskItem.getItemProperty(PaattiColumnNames.TASK_content));
        this.addComponent(contentLabel);
    } else {
        Video audiovideo = new Video();
        audiovideo.setSizeFull();
        audiovideo.setSource(new ExternalResource(taskItem.getItemProperty(PaattiColumnNames.TASK_url).toString()));
        audiovideo.setShowControls(true);
        this.addComponent(audiovideo);
    }
}
fireTaskChoiceChangeEvent();
}
}
/**
 * Add a listener for task choice changes.
 */
```

```
* <p/>
* @param listener The listener to be added.
*/
public void addListener(TaskChoiceChangeListener listener) {
    listeners.add(listener);
}

/**
 * Remove a task choice changes listener
 * <p/>
 * @param listener The listener to be removed.
 */
public void removeListener(TaskChoiceChangeListener listener) {
    listeners.remove(listener);
}

/**
 * Fires a TaskChoiceChangeEvent.
 * Also sets the right footer button enabled.
 */
private void fireTaskChoiceChangeEvent() {
    viewhandler.setFooterButtonEnabled(FOOTER_BUTTON_RIGHT, true);
    for (TaskChoiceChangeListener taskChoiceChangeListener : listeners) {
        taskChoiceChangeListener.taskChange(new TaskChoiceChangeEvent(this, currentTaskID, selectedChoiceID));
    }
}
```