

```
package fi.paatti.research.paattiapplication.views;

import com.vaadin.terminal.ThemeResource;
import com.vaadin.ui.Component;
import com.vaadin.ui.TabSheet;
import com.vaadin.ui.VerticalLayout;
import fi.paatti.paattidatabaseutils.dbservice.PaattiResearchDBService;
import fi.paatti.research.applicationinfo.Resources;
import fi.paatti.research.paattiapplication.ElementNames;
import fi.paatti.research.paattiapplication.PaattiResearchApplication;
import fi.paatti.research.paattiapplication.views.eventview.EventView;
import fi.paatti.research.paattiapplication.views.groupview.GroupView;
import fi.paatti.research.paattiapplication.views.ownpageview.OwnPageView;
import fi.paatti.research.paattiapplication.views.researchview.ResearchView;
import fi.paatti.research.paattiapplication.views.scheduleview.ScheduleView;
import fi.paatti.research.paattiapplication.views.userview.UserView;

/**
 * The application tab sheet that holds all the views of the application.
 *
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 */
public class ApplicationTabSheet extends TabSheet {
    private static final long serialVersionUID = 1L;

    private PaattiResearchApplication application;

    private static final ThemeResource[] icons = {
        new ThemeResource(Resources.ICON_MAIN), new ThemeResource(Resources.ICON_USER),
        new ThemeResource(Resources.ICON_GROUP), new ThemeResource(Resources.ICON_RESEARCH),
        new ThemeResource(Resources.ICON_SCHEDULE), new ThemeResource(Resources.ICON_EVENT),
        new ThemeResource(Resources.ICON_MEDIA), new ThemeResource(Resources.ICON_REPORT),
        new ThemeResource(Resources.ICON_HELP)
    };

    // Pre-defined tab locations. (TODO)
    public static final int USER_TAB = 1;
    public static final int GROUP_TAB = 2;
    public static final int SCHEDULE_TAB = 4;
}
/**
```

```
* Creates the application tab sheet.
*
* @param application PaattiResearchApplication application.
*/
public ApplicationTabSheet(PaattiResearchApplication application) {
    this.application = application;

    VerticalLayout ownPageViewLayout = new OwnPageView(this);

    ownPageViewLayout.setMargin(true);
    ownPageViewLayout.setSizeFull();

    ApplicationView userViewLayout = new UserView(this);
    userViewLayout.setSizeFull();

    ApplicationView groupViewLayout = new GroupView(this);
    groupViewLayout.setSizeFull();

    ApplicationView researchViewLayout = new ResearchView(this);
    researchViewLayout.setSizeFull();

    ApplicationView scheduleViewLayout = new ScheduleView(this);
    scheduleViewLayout.setSizeFull();

    ApplicationView eventViewLayout = new EventView(this);
    eventViewLayout.setSizeFull();

    setSizeFull();

    addTab(ownPageViewLayout, ElementNames.OWNPAGEVIEW_NAME, icons[0]);
    addTab(userViewLayout, ElementNames.USERVIEW_NAME, icons[1]);
    addTab(groupViewLayout, ElementNames.GROUPVIEW_NAME, icons[2]);
    addTab(researchViewLayout, ElementNames.RESEARCHVIEW_NAME, icons[3]);
    addTab(scheduleViewLayout, ElementNames.SCHEDULEVIEW_NAME, icons[4]);
    addTab(eventViewLayout, ElementNames.EVENTVIEW_NAME, icons[5]);
}

/**
 * Activates the tab at tabIndex. The activated tab uses the given itemId to
 * update its contents.
 */
}
```

```
* @param tabIndex tab index integer.
* @param itemId db item row id.
*/
public void setActiveTab(int tabIndex, Object itemId) {
    Component tabComponent = getTab(tabIndex).getComponent();

    setSelectedTab(tabComponent);
    ((ApplicationView) tabComponent).refresh(itemId);
}

/**
 * Returns the PaattiResearchApplication.
 */
* @return main application.
*/
public PaattiResearchApplication getPaattiApplication() {
    return application;
}

/**
 * Returns the db connection.
 */
* @return database connection.
*/
public PaattiResearchDBService getDBConnection() {
    return application.getDBConnection();
}
}
```