

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

import com.vaadin.ui.Component;
import com.vaadin.ui.NativeButton;
import fi.paatti.mobile.applicationinfo.CssStyleNames;
import fi.paatti.mobile.view.MobileViewLogic;
import fi.paatti.mobile.views.mobilecontentview.MobileContentView;
import fi.paatti.mobile.paattiapplication.MobileViewHandler;
import java.util.HashMap;

/**
 * A view for a menu in mobile ui.
 * <p/>
 * @author Lauri Satokangas, lauri.n.satokangas@student.jyu.fi @date 10.3.2012
 * @since 0.0.1
 */
public abstract class MenuView extends MobileContentView {

    private MenuViewListener menuViewListener;
    private MenuViewLogic menuViewLogic;
    private final HashMap<Object, Component> menuComponentMap;
    private NativeButton topButton;
    private NativeButton centerButton;
    private NativeButton bottomButton;
    private final NativeButton[] buttonArray = new NativeButton[3];

    /**
     * First button in the menu.
     */
    public static final String MENU_BUTTON_TOP = "menutopbutton";

    /**
     * Second button in the menu.
     */
    public static final String MENU_BUTTON_CENTER = "menucenterbutton";

    /**
     * third button in the menu.
     */
    public static final String MENU_BUTTON_BOTTOM = "menubottombutton";
    private MobileViewHandler viewHandler;

    /**
     * Constructor.
     */
}
```

```
* <p/>
* Creates a menu view with default layout. Contains a header label, three
* menu buttons and three footer buttons.
* <p/>
* @param handler The applications view handler.
*/
public MenuView(MobileViewHandler handler) {
    this.menuComponentMap = new HashMap<Object, Component>();
    viewhandler = handler;
    createUi();
}

/**
 * Constructor.
 * <p/>
 * Creates a menu view with default layout. Contains a header label, three
 * menu buttons and three footer buttons. Texts of the header and buttons
 * can be given as parameters.
 * <p/>
 * @param viewHandler Handler for the view.
 * @param headerText Text for the header
 * @param topButton Text for the top button
 * @param centerButton Text for the center button
 * @param bottomButton Text for the bottom button
 * <p/>
 */
public MenuView(MobileViewHandler viewHandler, String headerText,
    String topButton, String centerButton, String bottomButton) {
    this(viewHandler);
    getViewHandler().setHeaderText(headerText);
    this.topButton.setCaption(topButton);
    this.centerButton.setCaption(centerButton);
    this.bottomButton.setCaption(bottomButton);
}

/**
 * Create the user interface.
 */
private void createUi() {
    setSizeFull();
    this.setSpacing(true);
    this.setMargin(true);
    this.setStyleName(CssStyleNames.MENU_LAYOUT);
}
```

```
topButton = new NativeButton();
topButton.setStyleName(CssStyleNames.MENU_TOP_BUTTON);
buttonArray[0] = topButton;

centerButton = new NativeButton();
centerButton.setStyleName(CssStyleNames.MENU_CENTER_BUTTON);
buttonArray[1] = centerButton;

bottomButton = new NativeButton();
bottomButton.setStyleName(CssStyleNames.MENU_BOTTOM_BUTTON);
buttonArray[2] = bottomButton;

menuComponentMap.put(MENU_BUTTON_TOP, topButton);
menuComponentMap.put(MENU_BUTTON_CENTER, centerButton);
menuComponentMap.put(MENU_BUTTON_BOTTOM, bottomButton);

for (NativeButton button : buttonArray) {
    button.addStyleName(CssStyleNames.MENU_BUTTON);
    button.setSizeFull();
    this.addComponent(button);
    this.setExpandRatio(button, 1f);
}

}

/**
 * Set the text of the menu button.
 * <p/>
 * @param menuButton On which button the text will be set
 * @param text       The new text of the button
 */
public void setMenuButtonText(Object menuButton, String text) {
    if (menuButton.equals(MENU_BUTTON_TOP)) {
        topButton.setCaption(text);
    } else if (menuButton.equals(MENU_BUTTON_CENTER)) {
        centerButton.setCaption(text);
    } else if (menuButton.equals(MENU_BUTTON_BOTTOM)) {
        bottomButton.setCaption(text);
    }
}

/**
 * {@inheritDoc}
 */
@Override
public void setContentViewLogic(MobileViewLogic logic) {
```

```
viewhandler.setMobileViewLogic(logic);
this.menuViewLogic = (MenuViewLogic) logic;

if (this.menuViewListener != null) {
    for (NativeButton b : buttonArray) {
        for (Object listener : b.getListeners(NativeButton.ClickEvent.class)) {
            b.removeListener((NativeButton.ClickListener) listener);
        }
        b.removeListener(menuViewListener);
    }
}

this.menuViewListener = new MenuViewListener(menuViewLogic);

for (NativeButton b : buttonArray) {
    b.addListener((NativeButton.ClickListener) menuViewListener);
}

/**
 * Return the menu buttons.
 * <p/>
 * @return
 */
public HashMap<Object, Component> getMenuComponents() {
    return menuComponentMap;
}

/**
 * @return
 */
public MobileViewHandler getViewHandler() {
    return viewhandler;
}
```