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package fi.paatti.mobile.views.eventlistview;

import com.vaadin.data.Item;
import com.vaadin.data.util.sqlcontainer.SQLContainer;
import com.vaadin.ui.Component;
import fi.paatti.mobile.applicationinfo.ViewIds;
import fi.paatti.mobile.mobileview.MobileView;
import fi.paatti.mobile.views.ListViewLogic;
import fi.paatti.mobile.paattiapplication.MobileViewHandler;
import fi.paatti.paattidatabasutils.names.PaattiColumnNames;
import fi.paatti.paattidatabasutils.names.PaattiTableNames;
import java.util.HashMap;
import org.joda.time.DateTime;

/**
 * The logic for the event list view.
 */
@author Lauri Satokangas, lauri.n.satokangas@student.jyu.fi @date 16.3.2012
*/
public class EventListViewLogic extends ListViewLogic {

    private final EventListView eventListView;
    private final String[] weekdays = new String[] { "MA", "TI", "KE", "TO", "PE", "LA", "SU" };
    private boolean rightButtonPressed = false;
    private boolean middleButtonPressed = false;

    /**
     * Constructor.
     */
    @param viewHandler The application's view handler.
    @param eventListView The event list view.
    */
    public EventListViewLogic(MobileViewHandler viewHandler, EventListView eventListView) {
        super(viewHandler, eventListView);
        this.eventListView = eventListView;
    }

    @Override
    public void footerButtonAction(Object buttonId) {
        getViewHandler().setFooterButtonEnabled(buttonId, true);
        if (buttonId == EventListView.FOOTER_BUTTON_LEFT) {
            getViewHandler().setContentView(ViewIds.PREVIOUSVIEW);
        } else if (buttonId == EventListView.FOOTER_BUTTON_MIDDLE) {

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    if (middleButtonPressed) {
        eventListView.showAllEvents();
    } else {
        eventListView.showOnlyUnavailableEvents();
        rightButtonPressed = false;
        getViewHolder().setFooterButtonPressed(EventListView.FOOTER_BUTTON_RIGHT, false);
    }
    middleButtonPressed = !middleButtonPressed;
    getViewHolder().setFooterButtonPressed(buttonId, middleButtonPressed);
} else if (buttonId == MobileView.FOOTER_BUTTON_RIGHT) {
    if (rightButtonPressed) {
        eventListView.showAllEvents();
    } else {
        eventListView.showOnlyUnfinishedEvents();
        middleButtonPressed = false;
        getViewHolder().setFooterButtonPressed(EventListView.FOOTER_BUTTON_MIDDLE, false);
    }
    rightButtonPressed = !rightButtonPressed;
    getViewHolder().setFooterButtonPressed(buttonId, rightButtonPressed);
}
}
@Override
public HashMap<Object, Component> getFooterComponents() {
    return getViewHolder().getFooterComponents();
}
@Override
public void listItemClicked(Object eventId) {
    SQLContainer taskContainer = getViewHolder().getDbService().getTaskContainer(eventId);
    SQLContainer choiceContainer = getViewHolder().getDbService().getChoiceContainer(eventId);
    String eventTitle = getViewHolder().getDbService().getCellValueFromTable(PaattiTableNames.EVENT,
        PaattiColumnNames.EVENT_title, PaattiColumnNames.EVENT_eventId).toString();
    getViewHolder().createAndStartEvent(taskContainer, choiceContainer, eventTitle);
}
/**
 * Get the event time as String.
 * <p/>
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* Format: weekday dd.mm.yyyy [klo] hh:mm.
* <p/>
* @param eventItem The event item
* <p/>
* @return The event time as String or empty String if the time string could not be created.
*/
public String getEventTimeAsString(Item eventItem) {
    // TODO: code below works only when eventtime is absolute.
    // fix this to also create the time string when event time is not absolute.
    if (!eventItem.getProperty(PaattiColumnNames.EVENT_EVENTTIME_eventTimeID).getValue().toString().equals("-1")) {
        String weekday = (eventItem.getProperty(PaattiColumnNames.EVENTTIME_weekday).getValue() != null)
            ? weekdays[(Integer) eventItem.getProperty(PaattiColumnNames.EVENTTIME_weekday).getValue()]
            : "";
        String day = (eventItem.getProperty(PaattiColumnNames.EVENTTIME_day).getValue() != null)
            ? eventItem.getProperty(PaattiColumnNames.EVENTTIME_day).getValue().toString()
            : "";
        String month = (eventItem.getProperty(PaattiColumnNames.EVENTTIME_month).getValue() != null)
            ? eventItem.getProperty(PaattiColumnNames.EVENTTIME_month).getValue().toString()
            : "";
        String year = (eventItem.getProperty(PaattiColumnNames.EVENTTIME_year).getValue() != null)
            ? eventItem.getProperty(PaattiColumnNames.EVENTTIME_year).getValue().toString()
            : "";
        String hour = (eventItem.getProperty(PaattiColumnNames.EVENTTIME_fromHour).getValue() != null)
            ? eventItem.getProperty(PaattiColumnNames.EVENTTIME_fromHour).getValue().toString()
            : "";
        String minute = (eventItem.getProperty(PaattiColumnNames.EVENTTIME_minute).getValue() != null)
            ? eventItem.getProperty(PaattiColumnNames.EVENTTIME_minute).getValue().toString()
            : "";
        minute = (minute.length() == 1) ? "0" + minute : minute;
        return weekday + " " + day + "." + month + "." + year.toString() + " klo: " + hour + ":" + minute;
    } else {
        return "";
    }
}
/**
 * Checks the event time and returns the correct status for the event based on its time.
 * <p/>
 * @param eventItem The item that holds the events (time) values.
 * <p/>
 * @return The status of the event.
 */
public int getEventStatus(Item eventItem) {
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if ("-1".equals(eventItem.getItemProperty(PaattiColumnNames.EVENT_EVENTTIMEID).getValue().toString())) {
    return EventListItem.STATUS_UNAVAILABLE;
}
String day = (eventItem.getItemProperty(PaattiColumnNames.EVENTTIME_day).getValue() != null)
    ? eventItem.getItemProperty(PaattiColumnNames.EVENTTIME_day).getValue().toString()
    : "";
String month = (eventItem.getItemProperty(PaattiColumnNames.EVENTTIME_month).getValue() != null)
    ? eventItem.getItemProperty(PaattiColumnNames.EVENTTIME_month).getValue().toString()
    : "";
String year = (eventItem.getItemProperty(PaattiColumnNames.EVENTTIME_month).getValue() != null)
    ? eventItem.getItemProperty(PaattiColumnNames.EVENTTIME_year).getValue().toString()
    : "";
String hour = (eventItem.getItemProperty(PaattiColumnNames.EVENTTIME_fromHour).getValue() != null)
    ? eventItem.getItemProperty(PaattiColumnNames.EVENTTIME_fromHour).getValue().toString()
    : "";
String minute = (eventItem.getItemProperty(PaattiColumnNames.EVENTTIME_minute).getValue() != null)
    ? eventItem.getItemProperty(PaattiColumnNames.EVENTTIME_minute).getValue().toString()
    : "";

Integer hoursLeft = (eventItem.getItemProperty(PaattiColumnNames.EVENTTIME_hoursLeft).getValue() != null)
    ? (Integer) eventItem.getItemProperty(PaattiColumnNames.EVENTTIME_hoursLeft).getValue()
    : 0;

// Date time uses ISO 8601 format for creating date and time (VVVV-KK-PPTHH:MM)
DateTime eventStartingTime = new DateTime(year + "--" + month + "-" + day + "T" + hour + ":" + minute);
DateTime eventDueTime = eventStartingTime.plusHours(hoursLeft);

if (eventDueTime.isBeforeNow()) {
    return EventListItem.STATUS_UNFINISHED;
} else if (eventStartingTime.isAfterNow()) {
    return EventListItem.STATUS_UNAVAILABLE;
} else if (eventStartingTime.isEqualNow() || (eventStartingTime.isBeforeNow() && eventDueTime.isAfterNow())) {
    return EventListItem.STATUS_AVAILABLE;
}

return -1;
}

/**
 * Get the estimated time of the event as a String.
 * <p/>
 * The format of the returned String is hh:mm.
 * <p/>
 * @param eventItem The event item.
 * <p/>

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* @return The estimated time as a String or empty String if EVENT_estimated time was null.
*/
public String getEstimatedTimeAsString(Item eventItem) {
    if (eventItem == null || eventItem.getItemProperty(PaattiColumnNames.EVENT_estimatedTime).getValue() == null) {
        return "";
    }
    Integer estimatedMinutes = (Integer) eventItem.getItemProperty(PaattiColumnNames.EVENT_estimatedTime).getValue();
    int hours = estimatedMinutes / 60;
    int minutes = estimatedMinutes % 60;

    return (String.format("Arvioitu kesto: %02d:%02d", hours, minutes));
}
}
```