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Loading vc-cvs...
1 package caltool.view_ui;
2
3 import caltool.view.*;
4 import caltool.caltool_ui.*;
5 import mvp.*;
6 import java.util.*;
7 import javax.swing.*;
8 import javax.swing.table.*;
9 import java.awt.*;
10
11 /**
12  *
13  * Class AppointmentsListDisplay is the companion view of an Appointments
14  * list. The display is a JTable. The columns of the table are fixed, per the
15  * requirements. The number of rows and number of rows visible are controlled
16  * by options settings. The default number of rows is the number of
17  * appointments in the three-week period starting one week from today's date.
18  * The default number of visible rows is 20.
19  *
20  * The model data for this display come from the <a href= ../view/Lists.html>
21  * Lists</a> model class. A DefaultTableModel is used as an adaptor between
22  * the model data and the JTable display. See the method and data field
23  * documentation for further explanation.
24  */
25 public class AppointmentsListDisplay extends CalendarToolWindow {
26
27     /**
28      * Construct with the given screen and Lists model. A local
29      * DefaultTableModel is constructed to hold the raw data collected from the
30      * model.
31      */
32     public AppointmentsListDisplay(Screen s, Lists lists,
33         CalendarToolUI calToolUI) {
34         super(s, lists, calToolUI);
35         String[] columnNames = {
36             "Title", "Date", "Time", "Duration", "Rekurs?", "Category",
37             "Location", "Security", "Priority"};
38
39         localData = new DefaultTableModel(columnNames, 0);
40         table = new JTable(localData);
41         displayedOnce = false;
42     }
43
44     /**
45      * Compose the initial layout with column headings and no row data.
46      */
47     public Component compose() {
48
49         JScrollPane scrollPane = new JScrollPane(table);
50
51         table.setPreferredSize(new Dimension(
52             700, 20 * table.getRowHeight()));
53         table.setEnabled(false);
54         table.setShowGrid(true);
55         table.setShowHorizontalLines(true);
56
57         table.setShowVerticalLines(true);
58
59         window.add(scrollPane);
60         window.setTitle("Appointments, sorted by Date");
61
62         return window;
63     }
64
65     /**
66      * Display the model data produced by the method <a href=
67      * ../view/Lists.html#viewAppointmentsList()>
68      * Lists.viewAppointmentsList</a>. The height of the display is based on
69      * an option setting, independent from the length of list returned from the
70      * model method.
71
72      * In the current preliminary implementation, the height is set to the
73      * default value of 20 rows. This implementation will be refined to call
74      * an appropriate method in the options package.
75      */
76     public void update(Observable o, Object arg) {
77
78         /*
79          * Clear out all of the data rows.
80          */
81         localData.setRowCount(0);
82
83         /*
84          * Populate the data rows with model data, which come in the form of an
85          * array of AppointmentItems.
86          */
87         Object[] items = ((Lists)model).viewAppointmentsList();
88         for (int i = 0; i < items.length; i++) {
89             populateRow(i, (AppointmentListItem) items[i]);
90         }
91
92         if (!displayedOnce) {
93             displayedOnce = true;
94             window.pack();
95         }
96     }
97
98     /**
99      * Populate the ith table row with the data from the given appointment list
100     * item.
101     */
102     protected void populateRow(int i, AppointmentListItem item) {
103         localData.addRow(item.toArray());
104     }
105
106     /** Local data model. This is not the real data model, but rather a
107     view-specific table model that is constructed by extracting data from
108     the real model using the viewAppointmentsList method. There are in
109     fact no persistent list data on the model side; rather, all calendar
110     lists are computed dynamically from the underlying CalendarDB.
111

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112         In this way, DefaultTableModel is being used as a form of adaptor class
113         between the Lists model and the JTable-based display. */
114     protected DefaultTableModel localData;
115
116     /** The display view */
117     protected JTable table;
118
119     /** Flag that's true after the display has bee shown the first time. */
120     boolean displayedOnce;
121
122 }
```