

```

Loading vc-cvs...
1 package caltool.schedule_ui;
2
3 import caltool.schedule.*;
4 import caltool.caltool_ui.*;
5 import mvp.*;
6 import javax.swing.*;
7 import java.awt.*;
8 import java.awt.event.*;
9
10 /****
11 *
12 * Class ScheduleTaskDialog provides a view of Task as an input to the
13 * scheduleTask method. Hence, the dialog is a view of both an Task object as
14 * well as the scheduleTask method. The data-entry components of the dialog
15 * constitute the Task view. The 'OK' button is the view of the scheduleTask
16 * method.
17 *
18 * For expedience, ScheduleTaskDialog extends ScheduleAppointmentDialog.
19 * Appointment and task dialogs have a significant amount of structure in
20 * common, though there are some key differences that require specialiation
21 * here. The additional design comments in the definition of <a href=
22 * ScheduleAppointmentDialog.html> ScheduleAppointmentDialog </a> are generally
23 * relevant here.
24 *
25 */
26
27 public class ScheduleTaskDialog extends ScheduleAppointmentDialog {
28
29     /**
30     * Construct this with the given Schedule as companion model.
31     */
32     public ScheduleTaskDialog(Screen screen, Schedule schedule,
33         CalendarToolUI calToolUI) {
34         super(screen, schedule, calToolUI);
35     }
36
37     /**
38     * Compose this in six parts: (1) a top part consisting of the title, date,
39     * end date, due time, and duration components; (2) a part consisting of
40     * recurring info components; (3) a middle part with category, security,
41     * and priority; (4) reminder info components; (5) details components; (6)
42     * the bottom row consisting of the 'OK', 'Clear', and 'Cancel' buttons.
43     */
44     public Component compose() {
45
46         /*
47         * Add a JPanel to this' window, which was created in the parent class'
48         * constructor. JPanel is the standard background container for
49         * holding Swing components.
50         */
51         panel = new JPanel();
52         window.add(panel);
53
54         /*
55         * Set the layout style of the panel to be a vertical box.
56
57         */
58         panel.setLayout(new BorderLayout(panel, BorderLayout.Y_AXIS));
59
60         /*
61         * Compose the content rows.
62         */
63         composeRows();
64
65         /*
66         * Set the window titlebar.
67         */
68         window.setTitle("Schedule a Task");
69
70         /*
71         * Call JFrame.pack to have Java size up the window properly.
72         */
73         window.pack();
74
75         /*
76         * Return the window to the caller.
77         */
78         return window;
79     }
80
81     /**
82     * Compose the start date row using two pairs of labels and text fields.
83     */
84     protected Box composeStartDateRow() {
85
86         Box hbox = Box.createHorizontalBox();
87
88         /*
89         * Construct the labels and text fields. See internal comments in the
90         * composeTitle method for further explanatory details.
91         */
92         startDateLabel = new JLabel("Due Date: ");
93         startDateLabel.setForeground(Color.black);
94         startDateTextField = new JTextField(15);
95         startDateTextField.setMaximumSize(
96             new Dimension(maxComponentWidth, (int)(maxComponentHeight *
97                 startDateTextField.getFont().getSize())));
98         JLabel startTimeLabel = new JLabel("Due Time: ");
99         startTimeLabel.setForeground(Color.black);
100        startTimeTextField = new JTextField(15);
101        startTimeTextField.setMaximumSize(
102            new Dimension(maxComponentWidth, (int)(maxComponentHeight *
103                startTimeTextField.getFont().getSize())));
104
105        /*
106        * Add them to the hbox and return it.
107        */
108        hbox.add(Box.createHorizontalStrut(15));
109        hbox.add(startDateLabel);
110        hbox.add(startDateTextField);
111        hbox.add(Box.createHorizontalStrut(10));
112        hbox.add(startTimeLabel);

```

```

112         hbox.add(startTimeTextField);
113         hbox.add(Box.createHorizontalStrut(15));
114         return hbox;
115     }
116 }
117
118 /**
119  * Compose the end date row as a label/textField pair.
120  */
121 protected Box composeEndDateRow() {
122     Box hbox = Box.createHorizontalBox();
123
124     /*
125     * Construct the label and text field. See internal comments in the
126     * composeTitle method for further explanatory details.
127     */
128     endDateLabel = new JLabel("End Date: ");
129     endDateLabel.setForeground(Color.black);
130     endDateLabel.setEnabled(false);
131
132     endDateTextField = new JTextField(15);
133     endDateTextField.setMaximumSize(
134         new Dimension(maxComponentWidth, (int)(maxComponentHeight *
135             endDateTextField.getFont().getSize())));
136     endDateTextField.setEnabled(false);
137
138     /*
139     * Force decent-looking layout with a fixed-size horizontal strut.
140     * There's got to be a better way to do this, such as using the width
141     * of the Duration component, but so far the way has eluded me.
142     */
143     int blankSpacing = 254;
144
145     /*
146     * Add them to the hbox and return it.
147     */
148     hbox.add(Box.createHorizontalStrut(15));
149     hbox.add(endDateLabel);
150     hbox.add(endDateTextField);
151     hbox.add(Box.createHorizontalStrut(blankSpacing));
152     return hbox;
153 }
154
155 /**
156  * Compose the middle part of the dialog, consisting of the category,
157  * location, security, and priority. The category and security are combo
158  * boxes, laid out in a horizontal box. Location and priority are also
159  * combo boxes in a horizontal box. Location is editable. See the
160  * description of <a href= "ScheduleEventDialog#composeTopPart()">
161  * composeTopPart for a more detailed description of component layout.
162  */
163 protected Box composeMiddlePart() {
164     Box vbox = Box.createVerticalBox();
165
166     vbox.add(composeCategorySecurityRow());
167     vbox.add(Box.createVerticalStrut(15));
168     vbox.add(composePriorityRow());
169
170     return vbox;
171 }
172
173 /**
174  * Compose the priority row using two pairs of labels and text
175  * fields.
176  */
177 protected Box composePriorityRow() {
178     Box hbox = Box.createHorizontalBox();
179
180     /*
181     * Force decent-looking layout with a fixed-size horizontal strut.
182     * There's got to be a better way to do this, such as using the width
183     * of the Duration component, but so far the way has eluded me.
184     */
185     int blankSpacing = 248;
186
187     JLabel priorityLabel = new JLabel("Priority: ");
188     priorityLabel.setForeground(Color.black);
189
190     String[] selections = {"0 (lowest)", "1", "2", "3", "4", "5", "6", "7",
191         "8", "9", "10 (highest)"};
192     priorityComboBox = new JComboBox(selections);
193     priorityComboBox.setMaximumSize(
194         new Dimension(maxComponentWidth, (int)(maxComponentHeight *
195             priorityComboBox.getFont().getSize())));
196
197     hbox.add(Box.createHorizontalStrut(blankSpacing));
198     hbox.add(priorityLabel);
199     hbox.add(priorityComboBox);
200     hbox.add(Box.createHorizontalStrut(15));
201
202     return hbox;
203 }
204
205 /**
206  * Compose the buttons row with three JButtons. The action listeners for
207  * Clear and Cancel buttons are straightforward. The action listener for
208  * the OK button is responsible for communication with the Schedule model.
209  * See the description of <a href= "OKScheduleTaskButtonListener.html">
210  * OKScheduleTaskButtonListener </a> for explanatory details.
211  */
212 protected Box composeButtonRow() {
213     Box hbox = Box.createHorizontalBox();
214
215     /*
216     * Construct the three buttons.
217     */
218     JButton okButton = new JButton("OK");
219     JButton clearButton = new JButton("Clear");
220
221     vbox.add(okButton);
222     vbox.add(clearButton);
223
224     return vbox;
225 }

```

```
224     JButton cancelButton = new JButton("Cancel");
225
226     /*
227     * Attach the appropriate action listeners to each button.
228     */
229     okButton.addActionListener(
230         new OKScheduleTaskButtonListener((Schedule) model, this));
231
232     clearButton.addActionListener(
233         new ActionListener() {
234             public void actionPerformed(ActionEvent e) {
235                 clear();
236             }
237         }
238     );
239
240     cancelButton.addActionListener(
241         new ActionListener() {
242             public void actionPerformed(ActionEvent e) {
243                 hide();
244             }
245         }
246     );
247
248     /*
249     * Add them to the hbox and return it.
250     */
251     hbox.add(okButton);
252     hbox.add(Box.createHorizontalStrut(30));
253     hbox.add(clearButton);
254     hbox.add(Box.createHorizontalStrut(30));
255     hbox.add(cancelButton);
256     return hbox;
257 }
258
259 /**
260  * Clear each of the text fields of this to empty. Reset the combo boxes
261  * to no selection. NOTE: This method needs to be refined to use default
262  * values for clearing, once options and defaults functionality is
263  * implemented. It also needs to be refined to clear the recurring and
264  * remind check boxes and associated components.
265  */
266 protected void clear() {
267     titleTextField.setText("");
268     startDateTextField.setText("");
269     endDateTextField.setText("");
270     startTimeTextField.setText("");
271     categoryComboBox.setSelectedIndex(0);
272     securityComboBox.setSelectedIndex(0);
273     detailsTextArea.setText("");
274 }
275
276
277 }
```