```
 1  package rolodex;
 2
 3  import javax.swing.*;
 4  import java.awt.*;
 5  import java.awt.event.*;
 6  import mvp.*;
 7
 8  /****
 9   *
10   * Class FindCardDialog contains a text field for holding the name of the
11   * card(s) to be found.  Above the text field is the find dialog message.
12   * Below the text field are OK and Cancel buttons.
13   *
14   */
15
16  public class FindCardDialog extends View {
17
18      /*
19       * Construct the dialog to enter the name of zero or more cards to be found
20       * in the given rolodex.  The given Rolodex is the companion model.  The
21       * given RolodexMenuUI is the parent view.
22       */
23      public FindCardDialog(Rolodex r, RolodexMenuUI rmui,
24              FoundCardsDialog fcsd) {
25          super(null, r);
26
27          /*
28           * Construct the text field for entering the card name.
29           */
30          name_jtf = new JTextField(AddCardDialog.TEXT_FIELD_WIDTH);
31
32          /*
33           * Construct the OK and clear button listeners.
34           */
35          okfbl = new OKFindButtonListener(r, rmui, this, fcsd);
36          cfbl = new CancelFindButtonListener(rmui);
37
38          /*
39           * Construct the outer vertical box and inner horizontal button box.
40           */
41          button_box = new Box(BoxLayout.X_AXIS);
42          outer_box = new Box(BoxLayout.Y_AXIS);
43
44      }
45
46      /**
47       * Compose this by adding a prompting message, a text fields, and the OK
48       * and Clear buttons.
49       */
50      public void compose() {
51
52          JLabel jl;                      // Temporary label var
53
54          /*
55           * Make the widget of this the outer vertical box, wrapped in an opaque
56           * JPanel.
57           */
58          widget = new JPanel();
59          ((JPanel) widget).setOpaque(true);
60          ((JPanel) widget).add(outer_box);
61
62          /*
63           * Stick some spacing above the prompting message.
64           */
65          outer_box.add(Box.createVerticalStrut(AddCardDialog.VERTICAL_SPACING));
66
67          /*
68           * Insert the prompting message into the top of the box.  Set its font
69           * to Bold 16 point.  Set its alignment to centered.
70           */
71          jl = new JLabel("Enter name of card(s) to find:");
72          jl.setAlignmentX(JFrame.CENTER_ALIGNMENT);
73          jl.setFont(new Font(RolodexMenuUI.LABEL_FONT_NAME, Font.BOLD, 16));
74          jl.setForeground(Color.black);
75          outer_box.add(jl);
76
77          /*
78           * Stick some spacing between the message and the text field below.
79           */
80          outer_box.add(Box.createVerticalStrut(
81              2 * AddCardDialog.VERTICAL_SPACING));
82
83          /*
84           * Add the name-entering text field.
85           */
86          outer_box.add(name_jtf);
87
88          /*
89           * Compose the OK and Cancel dialog buttons and insert into the window.
90           */
91          composeButtons();
92      }
93
94      /**
95       * Return the string value entered by the user in the Name text field.
96       */
97      public String getName() {
98          return name_jtf.getText();
99      }
100
101     protected void composeButtons() {
102
103         JButton jb;             // Temp var for button being inserted into box
104
105         /*
106          * Make a horizontal Box to hold the buttons
107          */
108         Box b = new Box(BoxLayout.X_AXIS);
109
110         /*
111          * Enter the buttons into the box, delimited with struts.  Set the
112          * specialized action listener for each button.
```

```
113           */
114          button_box.add(Box.createHorizontalStrut(20));
115          button_box.add(jb = new JButton("OK"));
116          jb.addActionListener(okfbl);
117
118          button_box.add(Box.createHorizontalStrut(20));
119          button_box.add(jb = new JButton("Cancel"));
120          jb.addActionListener(cfbl);
121
122          button_box.add(Box.createHorizontalStrut(20));
123
124          /*
125           * Put the horizontal box into the window, with some spacing above.
126           */
127          outer_box.add(Box.createVerticalStrut(
128              2 *AddCardDialog.VERTICAL_SPACING));
129          outer_box.add(button_box);
130      }
131
132
133      /** Vertical box for holding all of the components */
134      protected Box outer_box;
135
136      /** Horizontal box for holding the buttons */
137      protected Box button_box;
138
139      /** Text field for card name */
140      protected JTextField name_jtf;
141
142      /** OK button listener */
143      protected OKFindButtonListener okfbl;
144
145      /** Cancel button listener */
146      protected CancelFindButtonListener cfbl;
147  }
```