```
package rolodex;

import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
import mvp.*;

/****
 *
 * Class DeleteCardDialog contains a text field for holding the id of a card to
 * be deleted.  Above the text field is the delete dialog message.  Below the
 * text field are OK and Cancel buttons.
 *
 */

public class DeleteCardDialog extends View {

    /*
     * Construct the dialog to enter the id of a card to be deleted from the
     * given rolodex.  The given Rolodex is the companion model.  The given
     * RolodexMenuUI is the parent view.
     */
    public DeleteCardDialog(Rolodex r, RolodexMenuUI rmui) {
        super(null, r);

        /*
         * Construct the text field for entering the card id.
         */
        id_jtf = new JTextField(AddCardDialog.TEXT_FIELD_WIDTH);

        /*
         * Construct the OK and Clear button listeners.
         */
        okdbl = new OKDeleteButtonListener(r, this, rmui);
        cdbl = new CancelDeleteButtonListener(rmui);

        /*
         * Construct the outer vertical box and inner horizontal button box.
         */
        button_box = new Box(BoxLayout.X_AXIS);
        outer_box = new Box(BoxLayout.Y_AXIS);
    }

    /**
     * Compose this by adding a prompting message, a text fields, and the OK
     * and Clear buttons.
     */
    public void compose() {

        JLabel jl;                      // Temporary label var

        /*
         * Make the widget of this the outer vertical box, wrapped in an opaque
         * JPanel.
         */
        widget = new JPanel();
        ((JPanel) widget).setOpaque(true);
        ((JPanel) widget).add(outer_box);

        /*
         * Stick some spacing above the prompting message.
         */
        outer_box.add(Box.createVerticalStrut(AddCardDialog.VERTICAL_SPACING));

        /*
         * Insert the prompting message into the top of the box.  Set its font
         * to Bold 16 point.  Set its alignment to centered.
         */
        jl = new JLabel("Enter id of card to delete:");
        jl.setAlignmentX(JFrame.CENTER_ALIGNMENT);
        jl.setFont(new Font(RolodexMenuUI.LABEL_FONT_NAME, Font.BOLD, 16));
        jl.setForeground(Color.black);
        outer_box.add(jl);

        /*
         * Stick some spacing between the message and the text field below.
         */
        outer_box.add(Box.createVerticalStrut(
            2 * AddCardDialog.VERTICAL_SPACING));

        /*
         * Add the name-entering text field.
         */
        outer_box.add(id_jtf);

        /*
         * Compose the OK and Cancel dialog buttons and insert into the window.
         */
        composeButtons();
    }

    /**
     * Return the Integer value entered by the user in the Id text field.  If
     * an empty or non-integer string is entered, return the Integer 0.
     */
    public Integer getId() {
        String text;                    // Raw text value from text field
        Integer rtn;                    // Text value converted to Integer

        /*
         * Snag the string value from the text field, guarding against null
         * pointer exception.
         */
        text = id_jtf.getText();

        /*
         * Convert the raw text string to an Integer.  If not a legal integer
         * value, convert to 0.
         */
        try {
            rtn = new Integer(text);
        }
```

```
113          catch (NumberFormatException nfe) {
114              rtn = new Integer(0);
115          }
116
117          return rtn;
118      }
119
120      protected void composeButtons() {
121
122          JButton jb;             // Temp var for button being inserted into box
123
124          /*
125           * Make a horizontal Box to hold the buttons
126           */
127          Box b = new Box(BoxLayout.X_AXIS);
128
129          /*
130           * Enter the buttons into the box, delimited with struts.  Set the
131           * specialized action listener for each button.
132           */
133          button_box.add(Box.createHorizontalStrut(20));
134          button_box.add(jb = new JButton("OK"));
135          jb.addActionListener(okdbl);
136
137          button_box.add(Box.createHorizontalStrut(20));
138          button_box.add(jb = new JButton("Cancel"));
139          jb.addActionListener(cdbl);
140
141          button_box.add(Box.createHorizontalStrut(20));
142
143          /*
144           * Put the horizontal box into the window, with some spacing above.
145           */
146          outer_box.add(Box.createVerticalStrut(
147              2 *AddCardDialog.VERTICAL_SPACING));
148          outer_box.add(button_box);
149      }
150
151
152      /** Horizontal box for holding the buttons. */
153      protected Box button_box;
154
155      /** Vertical box for holding all of the components */
156      protected Box outer_box;
157
158      /** Text field for card id */
159      protected JTextField id_jtf;
160
161      /** OK button listener */
162      protected OKDeleteButtonListener okdbl;
163
164      /** Cancel button listener */
165      protected CancelDeleteButtonListener cdbl;
166  }
```