```java
package rolodex;

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

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

public class ChangeCardDialog extends View {

    /*
     * Construct the dialog to enter the id of a card to be changed from the
     * given rolodex.  The given Rolodex is the companion model.  The given
     * RolodexMenuUI is the parent view.
     */
    public ChangeCardDialog(Rolodex r, RolodexMenuUI rmui,
            ConfirmChangeDialog cncd) {
        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.
         */
        okcbl = new OKChangeButtonListener(r, rmui, this, cncd);
        ccbl = new CancelChangeButtonListener(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 change:");
        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);
```

```
        }
        catch (NumberFormatException nfe) {
            rtn = new Integer(0);
        }

        return rtn;
    }

    protected void composeButtons() {

        JButton jb;             // Temp var for button being inserted into box

        /*
         * Make a horizontal Box to hold the buttons
         */
        Box b = new Box(BoxLayout.X_AXIS);

        /*
         * Enter the buttons into the box, delimited with struts.  Set the
         * specialized action listener for each button.
         */
        button_box.add(Box.createHorizontalStrut(20));
        button_box.add(jb = new JButton("OK"));
        jb.addActionListener(okcbl);

        button_box.add(Box.createHorizontalStrut(20));
        button_box.add(jb = new JButton("Cancel"));
        jb.addActionListener(ccbl);

        button_box.add(Box.createHorizontalStrut(20));

        /*
         * Put the horizontal box into the window, with some spacing above.
         */
        outer_box.add(Box.createVerticalStrut(
            2 *AddCardDialog.VERTICAL_SPACING));
        outer_box.add(button_box);
    }


    /** Horizontal box for holding the buttons. */
    protected Box button_box;

    /** Vertical box for holding all of the components */
    protected Box outer_box;

    /** Text field for card id */
    protected JTextField id_jtf;

    /** OK button listener */
    protected OKChangeButtonListener okcbl;

    /** Cancel button listener */
    protected CancelChangeButtonListener ccbl;
}
```