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/*****
 * Program Name: Contractor.java
 * Name: Barbara Williams
 * Program Description: This program is called by the PoolVolumeCalculator program and allows
 *                     contractors to be added or deleted
 *                     within any program.
 *****/

package Project;

import java.awt.Color;
import java.awt.Container;
import java.awt.FlowLayout;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.io.File;
import java.io.FileWriter;
import java.io.IOException;

import javax.swing.JButton;
import javax.swing.JComboBox;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.JTextField;

class Contractor extends JFrame
{
    private String[] states = { "AL", "AK", "AZ", "AR", "CA", "CO", "CT",
        "DE",
        "FL", "GA", "HI", "ID", "IL", "IN", "IA", "KS", "KY", "LA",
        "ME",
        "MD", "MA", "MI", "MN", "MS", "MO", "MT", "NE", "NV", "NH",
        "NJ",
        "NM", "NY", "NC", "ND", "OH", "OK", "OR", "PA", "RI", "SC",
        "SD",
        "TN", "TX", "UT", "VT", "VA", "WA", "WV", "WI", "WY" };
    private JComboBox StateList = new JComboBox(states);
    private JTextField NameText = new JTextField(20);
    private JTextField AddressText = new JTextField(26);
    private JTextField CityText = new JTextField(28);
    private JTextField ZipText = new JTextField(5);
    private JTextField PhoneText = new JTextField(10);
    private JTextField PopMessageText = new JTextField(30);
    private AddContButtonHandler addConHandler = new
AddContButtonHandler();

    public Contractor(String who)
    {
        popUpWindow(who);
    }

    // Customer and Contractor Pop Up Window
    public void popUpWindow(final String who)
    {

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// add components to contractor Pop up window
final JFrame popWindow;
popWindow = new JFrame(who);
popWindow.setSize(370, 300);
popWindow.setLocation(100, 100);
popWindow.setVisible(true);
setDefaultCloseOperation(EXIT_ON_CLOSE);

Container c = new Container();
popWindow.add(c);
c.setLayout(new FlowLayout());
c.add(new JLabel(who + " Name "));
c.add(NameText);
c.add(new JLabel("Address "));
c.add(AddressText);
c.add(new JLabel("City "));
c.add(CityText);
c.add(new JLabel("State "));
StateList.setSelectedIndex(0);
c.add(StateList);
c.add(new JLabel("ZIP"));
c.add(ZipText);
c.add(new JLabel("Phone"));
c.add(PhoneText);

JButton addwho = new JButton("Add " + who);
addwho.setMnemonic('A');

JButton close = new JButton("Close");
close.setMnemonic('C');

JButton deleteFile = new JButton("Delete File");
deleteFile.setMnemonic('D');

c.add(addwho);
c.add(close);
c.add(deleteFile);
PopMessageText.setEditable(false);
PopMessageText.setHorizontalAlignment(JTextField.CENTER);
PopMessageText.setForeground(Color.blue);
PopMessageText.setBackground(Color.white);
PopMessageText.setText("File contractor.txt does not exist yet -
will be created when you add contractors!");

// message.setOpaque(false);
c.add(PopMessageText);

deleteFile.setToolTipText("Delete File");
addwho.setToolTipText("Add " + who);
close.setToolTipText("Close");
if (who == "Contractor")
{
    addwho.addActionListener(addConHandler); // registers
listener
}

close.addActionListener(new ActionListener()

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    public void actionPerformed(ActionEvent e)
    {
        popWindow.dispose();
    }
});

deleteFile.addActionListener(new ActionListener()
{
    public void actionPerformed(ActionEvent e)
    {
        PopMessageText.setText("");
        if (who == "Contractor")
        {
            File file = new File("contractor.txt");
            boolean cusFileDeleted = file.delete();
            if (cusFileDeleted)
            {
                PopMessageText.setText("File
contractor.txt deleted!");
                PopMessageText.setForeground(Color.blue);
            }
            else
            {
                PopMessageText.setText("There was an
error in deleting file");
            }
        }
    }
});
} // end Pop up window

// Class handler to add customer information to a file
class AddContButtonHandler implements ActionListener
{
    public void actionPerformed(ActionEvent addCusHandler)
    {
        int StateIndex;
        try
        {
            File file = new File("contractor.txt");
            boolean success = file.createNewFile();
            if (success)
            {
                PopMessageText
                    .setText("Contractor added!");
            }
            else if (file.canWrite())
            {
                PopMessageText
                    .setText("Writing data to
Contractor.txt, file added");
            }
            else
            {

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        PopMessageText.setText("Cannot create file:
Contractor.txt");
    }
    try
    {
        FileWriter fileW = new
FileWriter("Contractor.txt", true);
        fileW.write("Name: " + NameText.getText());
        fileW.write("\n");
        fileW.write("Address: " +
AddressText.getText());
        fileW.write("\n");
        fileW.write("City: " + CityText.getText());
        fileW.write("\n");
        StateIndex = StateList.getSelectedIndex();
        fileW.write("State: " + states[StateIndex]);
        fileW.write("\n");
        fileW.write("Zip: " + ZipText.getText());
        fileW.write("\n");
        fileW.write("Phone: " + PhoneText.getText());
        fileW.write("\r\n\n");
        fileW.close();
        PopMessageText.setText("Contractor added!");
    }
    catch (IOException e1)
    {
        JOptionPane.showMessageDialog(null,
e1.getMessage(),
        "ERROR", 2); // Will display error
        message if unable
        // to write to file
    }
    NameText.setText("");
    AddressText.setText("");
    CityText.setText("");
    ZipText.setText("");
    PhoneText.setText("");
}
catch (IOException e1)
{
}
}
}
}

```

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/*****
 * Program Name: Customer.java
 * Name: Barbara Williams
 * Program Description: This program is called by the PoolVolumeCalculator program and allows
 *                      customers to be added or deleted within
 *                      any program.
 *****/

package Project;

import java.awt.Color;
import java.awt.Container;
import java.awt.FlowLayout;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.io.File;
import java.io.FileWriter;
import java.io.IOException;

import javax.swing.JButton;
import javax.swing.JComboBox;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.JTextField;

class Customer extends JFrame
{
    private String[] states = { "AL", "AK", "AZ", "AR", "CA", "CO", "CT",
                                "DE",
                                "FL", "GA", "HI", "ID", "IL", "IN", "IA", "KS", "KY", "LA",
                                "ME",
                                "MD", "MA", "MI", "MN", "MS", "MO", "MT", "NE", "NV", "NH",
                                "NJ",
                                "NM", "NY", "NC", "ND", "OH", "OK", "OR", "PA", "RI", "SC",
                                "SD",
                                "TN", "TX", "UT", "VT", "VA", "WA", "WV", "WI", "WY" };

    private JComboBox StateList = new JComboBox(states);
    private JTextField NameText = new JTextField(20);
    private JTextField AddressText = new JTextField(26);
    private JTextField CityText = new JTextField(28);
    private JTextField ZipText = new JTextField(5);
    private JTextField PhoneText = new JTextField(10);
    private JTextField PopMessageText = new JTextField(30);
    private AddCustButtonHandler addCusHandler = new
AddCustButtonHandler();

    public Customer(String who)
    {
        popUpWindow(who);
    }

    // Customer and Contractor Pop Up Window
    public void popUpWindow(final String who)
    {

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// add components to contractor Pop up window
final JFrame popWindow;
popWindow = new JFrame(who);
popWindow.setSize(370, 250);
popWindow.setLocation(100, 100);
popWindow.setVisible(true);
setDefaultCloseOperation(EXIT_ON_CLOSE);

Container c = new Container();
popWindow.add(c);
c.setLayout(new FlowLayout());
c.add(new JLabel(who + " Name "));
c.add(NameText);
c.add(new JLabel("Address "));
c.add(AddressText);
c.add(new JLabel("City "));
c.add(CityText);
c.add(new JLabel("State "));
StateList.setSelectedIndex(0);
c.add(StateList);
c.add(new JLabel("ZIP"));
c.add(ZipText);
c.add(new JLabel("Phone"));
c.add(PhoneText);

JButton addwho = new JButton("Add " + who);
addwho.setMnemonic('A');

JButton close = new JButton("Close");
close.setMnemonic('C');

JButton deleteFile = new JButton("Delete File");
deleteFile.setMnemonic('D');

c.add(addwho);
c.add(close);
c.add(deleteFile);
PopMessageText.setEditable(false);
PopMessageText.setHorizontalAlignment(JTextField.CENTER);
PopMessageText.setForeground(Color.blue);
PopMessageText.setBackground(Color.white);
PopMessageText.setText("File customer.txt does not exist yet -
will be created when you add customers!");

// message.setOpaque(false);
c.add(PopMessageText);

deleteFile.setToolTipText("Delete File");
addwho.setToolTipText("Add " + who);
close.setToolTipText("Close");
if (who == "Customer")
{
    addwho.addActionListener(addCusHandler); // registers
listener
}

close.addActionListener(new ActionListener()

```

```

    {
        public void actionPerformed(ActionEvent e)
        {
            popWindow.dispose();
        }
    });

deleteFile.addActionListener(new ActionListener()
{
    public void actionPerformed(ActionEvent e)
    {
        PopMessageText.setText("");
        if (who == "Customer")
        {
            File file = new File("customer.txt");
            boolean cusFileDeleted = file.delete();
            if (cusFileDeleted)
            {
                PopMessageText.setText("File
customer.txt deleted!");
                PopMessageText.setForeground(Color.blue);
            }
            else
            {
                PopMessageText.setText("There was an
error in deleting file");
            }
        }
    });
} // end Pop up window

// Class handler to add customer information to a file
class AddCustButtonHandler implements ActionListener
{
    public void actionPerformed(ActionEvent addCusHandler)
    {
        int StateIndex;
        try
        {
            File file = new File("customer.txt");
            boolean success = file.createNewFile();
            if (success)
            {
                PopMessageText
                    .setText("Customer added!");
            }
            else if (file.canWrite())
            {
                PopMessageText
                    .setText("Writing data to
Customer.txt, file added");
            }
            else
            {

```



```

        PopMessageText.setText("Cannot create file:
Customer.txt");
    }
    try
    {
        FileWriter fileW = new
FileWriter("Customer.txt", true);
        fileW.write("Name: " + NameText.getText());
        fileW.write("\n");
        fileW.write("Address: " +
AddressText.getText());
        fileW.write("\n");
        fileW.write("City: " + CityText.getText());
        fileW.write("\n");
        StateIndex = StateList.getSelectedIndex();
        fileW.write("State: " + states[StateIndex]);
        fileW.write("\n");
        fileW.write("Zip: " + ZipText.getText());
        fileW.write("\n");
        fileW.write("Phone: " + PhoneText.getText());
        fileW.write("\r\n\n");
        fileW.close();
        PopMessageText.setText("Customer added!");
    }
    catch (IOException e1)
    {
        JOptionPane.showMessageDialog(null,
e1.getMessage(),
        "ERROR", 2); // Will display error
        message if unable
        // to write to file
    }
    NameText.setText("");
    AddressText.setText("");
    CityText.setText("");
    ZipText.setText("");
    PhoneText.setText("");
}
catch (IOException e1)
{
}
}
}

```



```
/* *****  
 * Program Name: ExitButton.java  
 * Name: Barbara Williams  
 * Program Description: This program is called by the  
 *                      PoolVolumeCalculator program and allows  
 *                      the ExitButton to be added and operational  
 *                      within any program.  
 * ***** */  
  
package Project;  
  
import java.awt.event.ActionEvent;  
import java.awt.event.ActionListener;  
import javax.swing.JButton;  
  
public class ExitButton  
{  
    private static JButton exitButton;  
  
    public JButton getExitButton()  
    {  
        exitButton = new JButton("Exit");  
        exitButton.setMnemonic('x');  
        exitButton.addActionListener(new ActionListener()  
        {  
            public void actionPerformed(ActionEvent e)  
            {  
                System.exit(0);  
            }  
        });  
  
        return exitButton;  
    }  
}
```