```
1: /*
 2:
 3: Jared Dyreson
 4: CWID: 889546529
 5: ZipWindow.java ->
 6:
 7: */
 8: import javax.swing.JFileChooser;
 9: import javax.swing.filechooser.FileSystemView;
10:
11: import javax.swing.*;
12: import java.text.MessageFormat;
13: import java.awt.*;
14: import javax.swing.JFrame;
15: import java.awt.event.*;
16: import java.lang.Math;
17:
18: import java.io.*;
19: import java.util.*;
20: import java.util.List;
21: import java.util.ArrayList;
22: import java.util.Arrays;
23:
24: public class ZipWindow extends JFrame implements ActionListener{
25:
            // Auto generated with caffine and cups.service
26:
            final int FRAME_WIDTH = 959, FRAME_HEIGHT = 1052;
27:
28:
            JPanel file_manipulation_buttons = new JPanel();
29:
            JPanel menu_panel = new JPanel();
30:
31:
            JButton extract_button = new JButton("Extract");
32:
            JButton add_files = new JButton("+");
33:
34:
            JButton next = new JButton("<--");</pre>
35:
            JButton previous = new JButton("-->");
36:
            JButton home_button = new JButton("Root folder");
37:
            JButton about = new JButton("about");
38:
39:
            JLabel location_label = new JLabel("Location:");
40:
41:
            JTextField path_in_archive = new JTextField();
42:
43:
            JToolBar toolbar = new JToolBar();
44:
45:
            String[] menu_options = {"File", "Edit", "View", "Help"};
            String[] file_menu_options = {"New Archive", "Open", "Extract Files", "Close"};
46:
47:
            List<String> file_manifest = new ArrayList<>();
48:
```

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49:
            JMenuBar menu_bar = new JMenuBar();
50:
            ZipBackend zipper = new ZipBackend();
51:
52:
            public ZipWindow() {
53:
                    super("Zip Viewer");
54:
55:
                    setSize(FRAME WIDTH, FRAME HEIGHT);
56:
                    setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
57:
                    setLocationRelativeTo(null);
58:
                    add_files.addActionListener(this);
59:
                    extract_button.addActionListener(this);
60:
                    about.addActionListener(this);
61:
                    //setLayout (new BorderLayout (2, 1));
62:
63:
                    toolbar.setRollover(true);
64:
                    for(int i = 0; i < menu_options.length; ++i){</pre>
65:
                             menu_bar.add(new JMenu(menu_options[i]));
66:
                    }
67:
68:
                    toolbar.add(menu_bar);
69:
70:
                    file_manipulation_buttons.setLayout(new FlowLayout());
71:
                    file_manipulation_buttons.add(extract_button);
72:
                    file_manipulation_buttons.add(add_files);
73:
                    file_manipulation_buttons.add(about);
74:
75:
                    menu_panel.setLayout(new BorderLayout(2, 1));
76:
                    menu panel.add(toolbar, BorderLayout.WEST);
                    menu_panel.add(file_manipulation_buttons, BorderLayout.EAST);
77:
78:
                    //menu_panel.add(extract_button, BorderLayout.EAST);
79:
                    this.add(menu_panel, BorderLayout.NORTH);
80:
81:
82:
83:
            public String get_file() {
84:
                    String file_path = "";
85:
                    JFileChooser jfc = new JFileChooser(FileSystemView.getFileSystemView().getHomeDirectory());
86:
                    int returnValue = jfc.showOpenDialog(null);
87:
                    if (returnValue == JFileChooser.APPROVE_OPTION) {
88:
                             File selectedFile = jfc.getSelectedFile();
89:
                             file_path = selectedFile.getAbsolutePath();
90:
91:
                    return file_path;
92:
93:
94:
            @Override
95:
            public void actionPerformed(ActionEvent event) {
96:
                    Object source = event.getSource();
```

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97:
                     if(source == add_files) {
 98:
                             String path_to_file = get_file();
                             file_manifest.add(path_to_file);
 99:
100:
                     else if(source == extract_button) {
101:
102:
                             try{
                                     zipper.zip_contents(file_manifest, "example.zip");
103:
104:
                             catch(Exception error) {
105:
                                     System.out.println(error);
106:
107:
108:
                     else if(source == about) {
109:
                             AboutPage about_page = new AboutPage();
110:
111:
                             about_page.setVisible(true);
112:
                     }
113:
114:
115: }
```