```
1: /*
 2:
 3: Jared Dyreson
 4: CWID: 889546529
 5: ZipWindow.java ->
 6:
 7: */
 8:
 9: import javax.swing.JFileChooser;
10: import javax.swing.filechooser.FileSystemView;
11:
12: import java.awt.*;
13: import java.awt.event.*;
14: import java.lang.Math;
15: import java.text.MessageFormat;
16: import javax.swing.*;
17: import javax.swing.JFrame;
18:
19: import java.io.*;
20: import java.util.*;
21: import java.util.ArrayList;
22: import java.util.Arrays;
23: import java.util.List;
24:
25: // TODO
26: // contents of the zip needs to be displayed in the middle of the screen
27: // Name Size Type Modified
28: // -----
29: // [filename] [file size] [mime type] [last modified]
30: //
31: // better format the buttons
32: // add functionality to the drop down options
33: // mapping the about page and creating a new empty archive
34: // create the functionality for appending to the archive
35: // create the functionality for dumping the archive
36:
37: public class ZipWindow extends JFrame implements ActionListener{
38:
           // Auto generated with caffine and cups.service
39:
           final int FRAME_WIDTH = 959, FRAME_HEIGHT = 1052;
40:
41:
           JPanel file_manipulation_buttons = new JPanel();
42:
           JPanel menu_panel = new JPanel();
43:
44:
           JButton extract_button = new JButton("Extract");
45:
           JButton add_files = new JButton("+");
46:
47:
           JButton next = new JButton("<--");</pre>
           JButton previous = new JButton("-->");
48:
```

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49:
            JButton home_button = new JButton("Root folder");
50:
            JButton about = new JButton("about");
51:
            JButton list_contents = new JButton("list contents");
52:
53:
            JLabel location_label = new JLabel("Location:");
54:
55:
            JTextField path in archive = new JTextField();
56:
57:
            JToolBar toolbar = new JToolBar();
58:
59:
            String[] menu_options = {"File", "Edit", "View", "Help"};
            String[] file_menu_options = {"New Archive", "Open", "Extract Files", "Close"};
60:
            List<String> file_manifest = new ArrayList<>();
61:
62:
            List<JPanel> contents_of_nth_depth = new ArrayList<>();
63:
64:
            JMenuBar menu bar = new JMenuBar();
65:
            ZipBackend zipper = new ZipBackend();
66:
67:
            public ZipWindow() {
68:
                    super("Zip Viewer");
69:
70:
                    setSize(FRAME WIDTH, FRAME HEIGHT);
71:
                    setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
72:
                    setLocationRelativeTo(null);
73:
                    add files.addActionListener(this);
74:
                    extract_button.addActionListener(this);
75:
                    about.addActionListener(this);
76:
                    list contents.addActionListener(this);
77:
78:
                    toolbar.setRollover(true);
79:
                    for(int i = 0; i < menu_options.length; ++i){</pre>
80:
                            menu_bar.add(new JMenu(menu_options[i]));
81:
                    }
82:
83:
                    toolbar.add(menu_bar);
84:
85:
                    file manipulation buttons.setLayout (new FlowLayout());
86:
                    file_manipulation_buttons.add(extract_button);
87:
                    file_manipulation_buttons.add(add_files);
88:
                    file_manipulation_buttons.add(about);
89:
                    file_manipulation_buttons.add(list_contents);
90:
                    menu_panel.setLayout(new BorderLayout(2, 1));
91:
92:
                    menu_panel.add(toolbar, BorderLayout.WEST);
93:
                    menu_panel.add(file_manipulation_buttons, BorderLayout.EAST);
94:
                    this.add(menu_panel, BorderLayout.NORTH);
95:
96:
            }
```

```
97:
 98:
             public String get_file() {
 99:
                     String file_path = "";
100:
                     JFileChooser jfc = new JFileChooser(FileSystemView.getFileSystemView().getHomeDirectory());
                     int returnValue = jfc.showOpenDialog(null);
101:
102:
                     if (returnValue == JFileChooser.APPROVE OPTION) {
103:
                              File selectedFile = jfc.getSelectedFile();
                              file_path = selectedFile.getAbsolutePath();
104:
105:
106:
                     return file_path;
107:
108:
             @Override
109:
110:
             public void actionPerformed(ActionEvent event) {
                     Object source = event.getSource();
111:
112:
                     if(source == add files){
                              String path_to_file = get_file();
113:
                              file_manifest.add(path_to_file);
114:
115:
116:
                     else if(source == extract_button) {
117:
                              //String zip_destination_name =
118:
                              try{
119:
                                      zipper.zip_contents(file_manifest, "example.zip");
120:
121:
                              catch (Exception error) {
122:
                                      System.out.println(error);
123:
124:
125:
                     else if(source == about) {
126:
                              AboutPage about_page = new AboutPage();
127:
                              about_page.setVisible(true);
128:
129:
                     else if(source == list contents){
130:
                              for(int i = 0; i < file_manifest.size(); ++i){</pre>
131:
                                      try{
132:
                                              FileHandler file = new FileHandler(file manifest.get(i));
133:
                                              JPanel file panel = new JPanel();
134:
                                              file_panel.setLayout(new FlowLayout());
135:
                                              file_panel.add(new JLabel(file.get_last_modified()));
136:
                                              file_panel.add(new JLabel(file.get_mime_type()));
137:
                                              contents_of_nth_depth.add(file_panel);
138:
                                              /*menu_panel.add(file_panel, BorderLayout.CENTER); */
139:
                                              /*this.add(menu_panel, BorderLayout.CENTER);*/
140:
                                      catch(Exception error){
141:
142:
                                              System.out.println(error);
143:
                                      }
144:
```

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145: }
146: }
147: }
148: 
149: }
```