```
1: /*
 2:
 3: Jared Dyreson
 4: CWID: 889546529
 5: AboutPage.java ->
 6:
 7: */
 8:
 9: import javax.swing.*;
10: import java.text.MessageFormat;
11: import java.awt.*;
12: import javax.swing.JFrame;
13: import java.awt.event.*;
14: import java.lang.Math;
15:
16: import java.io.*;
17: import java.util.*;
18: import java.util.List;
19: import java.util.ArrayList;
20: import java.util.Arrays;
21:
22: public class AboutPage extends JFrame implements ActionListener{
23:
            // Auto generated with caffine and ureadahead.service
24:
25:
            private final int FRAME HEIGHT = 424, FRAME WIDTH = 373;
26:
            private String about_message = "Zip Viewer\n1.0.0\nA zip manager written in pure Java.\nThis is a direc
27:
            private JLabel center_label = new JLabel(about_message);
28:
29:
            private JButton close = new JButton("Close");
30:
            private JButton credits = new JButton("Credits");
31:
32:
            private JPanel sub_panel = new JPanel();
33:
34:
            public AboutPage() {
35:
                    super("About Zip Viewer");
36:
37:
                    this.setSize(FRAME_HEIGHT, FRAME_WIDTH);
38:
                    this.setLocationRelativeTo(null);
39:
                    this.setLayout(new FlowLayout());
40:
                    this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
41:
                    //this.add(sub_panel, BorderLayout.SOUTH);
42:
43:
                    close.addActionListener(this);
44:
                    credits.addActionListener(this);
45:
46:
                    sub_panel.setLayout(new FlowLayout());
47:
                    this.add(center_label, BorderLayout.CENTER);
48:
                    this.add(credits, BorderLayout.WEST);
```

./AboutPage.java

```
49:
                    this.add(close, BorderLayout.EAST);
50:
                    //this.add(sub_panel, BorderLayout.SOUTH);
51:
52:
53:
54:
55:
            @Override
            public void actionPerformed(ActionEvent event) {
56:
57:
                    Object source = event.getSource();
58:
                    if(source == close){
59:
60:
                            this.dispose();
61:
62:
                    else{
63:
                            System.out.println("Credits...my mom");
64:
                    }
65:
66:
67: }
```

```
1: /*
 2:
 3: Jared Dyreson
 4: CWID: 889546529
 5: CreateNewArchive.java ->
 6:
 7: */
 8:
 9: import javax.swing.*;
10: import java.text.MessageFormat;
11: import java.awt.*;
12: import javax.swing.JFrame;
13: import java.awt.event.*;
14: import java.lang.Math;
15:
16: import java.io.*;
17: import java.util.*;
18: import java.util.List;
19: import java.util.ArrayList;
20: import java.util.Arrays;
21:
22:
23: public class CreateNewArchive extends JFrame implements ActionListener{
            // Auto generated with caffine and pppd-dns.service
25:
26:
            private final int FRAME_HEIGHT = 522, FRAME_WIDTH = 193;
27:
            JButton create = new JButton("Create");
28:
            JButton close = new JButton("Close");
29:
30:
            JLabel location_label = new JLabel("Location");
31:
            JLabel archive_name_label = new JLabel("Archive Name:");
32:
33:
            JTextField archive_name_field = new JTextField(20);
34:
35:
            JPanel bottom_elements = new JPanel();
36:
            JPanel center_elements = new JPanel();
37:
38:
            ZipBackend zipper = new ZipBackend();
39:
40:
            public CreateNewArchive() {
41:
                    super("Create New Archive");
42:
                    this.setSize(FRAME_HEIGHT, FRAME_WIDTH);
43:
44:
                    this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
45:
                    this.setLocationRelativeTo(null);
46:
47:
                    create.addActionListener(this);
48:
                    close.addActionListener(this);
```

./CreateNewArchive.java

```
49:
                    bottom_elements.setLayout(new FlowLayout());
50:
                    bottom_elements.add(create);
51:
                    bottom_elements.add(close);
52:
53:
                    center_elements.setLayout(new FlowLayout());
54:
                    center_elements.add(location_label);
55:
                    center_elements.add(archive_name_field);
56:
57:
                    this.add(bottom_elements, BorderLayout.SOUTH);
58:
                    this.add(center_elements, BorderLayout.CENTER);
59:
            @Override
60:
            public void actionPerformed(ActionEvent event) {
61:
62:
                    Object action_performed = event.getSource();
63:
                    if (action_performed == close) {
64:
65:
                             this.dispose();
66:
67:
                    else if(action_performed == create){
                            String path_to_empty = archive_name_field.getText();
68:
69:
                             try{
70:
71:
                                     zipper.create_empty_archive(path_to_empty+".zip");
72:
73:
                             catch (Exception error) {
74:
                                     System.out.println(error);
75:
76:
77:
78: }
```

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./Driver.java

```
1
```

```
1: /*
 2:
 3: Jared Dyreson
 4: CWID: 889546529
 5: Driver.java ->
 6:
 7: */
 8:
 9: import java.io.File;
10: import javax.swing.JFileChooser;
11: import javax.swing.filechooser.FileSystemView;
12:
13: public class Driver {
            public static void main(String[] args){
14:
15:
                    // Auto generated with caffine and NetworkManager-dispatcher.service
16:
                    ZipWindow zipper = new ZipWindow();
17:
                    zipper.setVisible(true);
                   //CreateNewArchive n = new CreateNewArchive();
18:
19:
                    //n.setVisible(true);
20:
21: }
```

```
1: /*
 2:
 3: Jared Dyreson
 4: CWID: 889546529
 5: FileHandler.java ->
 6:
 7: */
 8: import java.io.IOException;
 9: import java.nio.file.Files;
10: import java.nio.file.Path;
11: import java.nio.file.Paths;
12:
13: import java.io.File;
14: import java.text.SimpleDateFormat;
15:
16: public class FileHandler {
            // Auto generated with caffine and networking.service
17:
18:
19:
            private String path = "";
20:
            private File file;
21:
22:
            public FileHandler(String path_to_file) {
23:
                    this.path = path_to_file;
24:
                    this.file = new File(this.path);
25:
            }
26:
27:
            public String get_path() {
28:
                    return path;
29:
30:
            public String get_absolute_path() {
31:
                    if(this.file.exists()){
32:
                             return this.file.getAbsolutePath();
33:
34:
                    return "";
35:
36:
            public String get_last_modified() {
37:
                    SimpleDateFormat formatter = new SimpleDateFormat("MM/dd/yyyy HH:mm:ss");
38:
                    return formatter.format(this.file.lastModified());
39:
40:
            public String get_mime_type() throws IOException{
41:
                    if(this.file.isDirectory()) { return "dir"; }
42:
                    Path source = Paths.get(this.path);
43:
                    return Files.probeContentType(source);
44:
            }
45:
            public static void main(String args[]) {
46:
47:
                    FileHandler f = new FileHandler("temp/");
48:
                    try{
```

```
09:46:37
                                                  ./FileHandler.java
 49:
                              System.out.println(f.get_mime_type());
 50:
                              System.out.println(f.get_last_modified());
                              System.out.println(f.get_absolute_path());
 51:
 52:
 53:
                      catch (Exception error) {
 54:
                              System.out.println(error);
 55:
                      }
 56:
```

11/02/19

57: 58: }

```
1: /*
 2:
 3: Jared Dyreson
 4: CWID: 889546529
 5: ZipBackend.java ->
 6:
 7: */
 8:
 9: import java.io.*;
10: import java.util.*;
11: import java.util.zip.*;
12:
13: public class ZipBackend {
14:
            // Auto generated with caffine and accounts-daemon.service
15:
16:
            private ZipOutputStream zip_stream_for_class;
17:
18:
            public void zip_contents(List<String> file_contents, String path_to_file) throws IOException{
19:
                    FileOutputStream file stream = new FileOutputStream(path to file);
20:
                    ZipOutputStream zip_out = new ZipOutputStream(file_stream);
21:
                    File destination_zip = new File(path_to_file);
22:
                    if (destination_zip.exists()) {
23:
                            System.out.println("File already exists");
24:
                            return:
25:
                    }
26:
27:
                    for(String path : file_contents) {
28:
                            File zip this file = new File(path);
29:
                            FileInputStream input_stream = new FileInputStream(zip_this_file);
30:
                            ZipEntry zip_entry = new ZipEntry(zip_this_file.getName());
31:
                            zip_out.putNextEntry(zip_entry);
32:
33:
                            byte[] bytes = new byte[1024];
34:
                            int len;
35:
                            while((len = input_stream.read(bytes)) >= 0){
36:
                                     zip_out.write(bytes, 0, len);
37:
38:
                            input_stream.close();
39:
40:
                    zip_out.close();
41:
                    file_stream.close();
42:
43:
44:
            public void create_empty_archive(String path_to_file) throws IOException{
45:
                    File zip_file = new File(path_to_file);
46:
                    FileOutputStream stream = new FileOutputStream(zip_file);
47:
                    BufferedOutputStream buffered = new BufferedOutputStream(stream);
48:
                    ZipOutputStream zip stream = new ZipOutputStream(stream);
```

11/02/19 00:57:54 ./ZipBackend.java

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:
```

```
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();
```

```
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: }
```