

```
1 package view;
2
3 import java.awt.Color;
4 import java.awt.Component;
5 import java.awt.Font;
6 import java.awt.event.ActionEvent;
7 import java.awt.event.ActionListener;
8 import java.awt.event.MouseAdapter;
9 import java.awt.event.MouseEvent;
10 import java.util.ArrayList;
11 import java.util.InputMismatchException;
12
13 import javax.swing.JButton;
14 import javax.swing.JFrame;
15 import javax.swing.JLabel;
16 import javax.swing.JOptionPane;
17 import javax.swing.JPanel;
18 import javax.swing.JTextField;
19 import javax.swing.border.LineBorder;
20
21 import model.Case;
22 import model.Client;
23 import model.Employee;
24 import use_case_controller.SearchCasesController;
25
26 /**
27  * Class CommonElements to reduce repeating code in package view.
28  * Responsible for constructing main navigation menu.
29  * Contains other commonly used elements such as displaying an error message and styling a button.
30  * @author Daria Vekic (Student ID: 586661)
31  *
32  */
33 public class CommonElements extends JFrame {
34
35     private static final long serialVersionUID = 1L;
36     private String error3 = "Please enter a valid case reference number.";
37
38     //Controller required for use in Action Performed methods
39     private SearchCasesController searchController = new SearchCasesController();
40
41     // Instance fields for navigation menu
42     private JPanel menuPanel;
43     private JLabel menuLabel;
44     private JButton addCaseBtn;
45     private JButton viewAllCasesButton;
46     private JButton viewCriminalBtn;
47     private JButton viewImmBtn;
48     private JButton viewPIBBtn;
49     private JButton ourStaffBtn;
50     private JButton genReportBtn;
51     private JTextField searchBarTxtField;
52     private JButton searchButton;
53
54     /**
```

```
55  * Method to construct the navigation menu.
56  * @param contentPane the JPanel to place menu on
57  * @param employees the List of Employee data required to add new Case
58  * @param clients the List of Client data required to add new Case and Client
59  * @param cases the List of Case data which new Case is added to
60  */
61  public void constructNavMenu(JPanel contentPane, ArrayList<Employee> employees,
62      ArrayList<Client> clients,
63      ArrayList<Case> cases) {
64      menuPanel = new JPanel();
65      menuPanel.setBackground(Color.LIGHT_GRAY);
66      menuPanel.setBounds(10, 11, 181, 646);
67      contentPane.add(menuPanel);
68      menuPanel.setLayout(null);
69
70      menuLabel = new JLabel("MENU");
71      menuLabel.setBounds(58, 11, 70, 23);
72      menuLabel.setFont(new Font("Verdana", Font.BOLD, 18));
73      menuPanel.add(menuLabel);
74
75      addCaseBtn = new JButton("Add New Case");
76      addCaseBtn.setBounds(11, 44, 160, 75);
77      styleButton(addCaseBtn);
78      addCaseBtn.addActionListener(new ActionListener()
79      {
80          public void actionPerformed(ActionEvent event) {
81              addCaseBtnActionPerformed(event, employees, clients, cases);
82          } //end method actionPerformed
83      } //end method ActionListener
84      ); //end call to addCaseBtnActionPerformed ActionListener
85      menuPanel.add(addCaseBtn);
86
87      viewAllCasesButton = new JButton("View All Cases");
88      viewAllCasesButton.setBounds(11, 130, 160, 75);
89      styleButton(viewAllCasesButton);
90      viewAllCasesButton.addActionListener(new ActionListener()
91      {
92          public void actionPerformed(ActionEvent event) {
93              viewAllCasesButtonActionPerformed(event, employees, clients, cases);
94          } //end method actionPerformed
95      } //end method ActionListener
96      ); //end call to viewAllCasesButtonActionPerformed ActionListener
97      menuPanel.add(viewAllCasesButton);
98
99      viewCriminalBtn = new JButton("View Criminal Cases");
100     viewCriminalBtn.setBounds(11, 216, 160, 75);
101     styleButton(viewCriminalBtn);
102     menuPanel.add(viewCriminalBtn);
103
104     viewImmBtn = new JButton("View Imm Cases");
105     viewImmBtn.setBounds(11, 302, 160, 75);
106     styleButton(viewImmBtn);
107     menuPanel.add(viewImmBtn);
108
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109     viewPIBtn = new JButton("View PI Cases");
110     viewPIBtn.setBounds(11, 388, 160, 75);
111     styleButton(viewPIBtn);
112     menuPanel.add(viewPIBtn);
113
114     ourStaffBtn = new JButton("Our Staff");
115     ourStaffBtn.setBounds(11, 474, 160, 75);
116     styleButton(ourStaffBtn);
117     menuPanel.add(ourStaffBtn);
118
119     genReportBtn = new JButton("Generate Report");
120     genReportBtn.setBounds(11, 560, 160, 75);
121     styleButton(genReportBtn);
122     menuPanel.add(genReportBtn);
123
124     searchBarTxtField = new JTextField();
125     searchBarTxtField.addMouseListener(new MouseAdapter() {
126         @Override
127         public void mouseClicked(MouseEvent e) {
128             searchBarTxtField.setText("");
129         }
130     });
131     searchBarTxtField.setFont(new Font("Verdana", Font.PLAIN, 14));
132     searchBarTxtField.setText("Enter a Case Reference Number");
133     searchBarTxtField.setBounds(238, 40, 443, 56);
134     contentPane.add(searchBarTxtField);
135     searchBarTxtField.setColumns(10);
136
137     searchButton = new JButton("Search");
138     searchButton.setBounds(723, 49, 116, 40);
139     styleButton(searchButton);
140     searchButton.addActionListener(new ActionListener()
141     {
142         public void actionPerformed(ActionEvent event) {
143             searchButtonActionPerformed(event, cases, employees, clients);
144         } //end method actionPerformed
145     } //end method ActionListener
146     ); //end call to addCaseBtnActionPerformed ActionListener
147     contentPane.add(searchButton);
148 } //end method constructNavMenu
149
150 /**
151  * Method to outline a JTextField red.
152  * Used when invalid data is entered.
153  * @param textField the JTextField to be outlined.
154  */
155 public void outlineRed(JTextField textField) {
156     textField.setBorder(new LineBorder(Color.RED, 2));
157 } //end method outline Red
158
159 /**
160  * Method to display error message to screen.
161  * @param errorMessage the error message to be displayed.
162  * @param title the title of the JOptionPane.
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163     */
164     public void showError(String errorMessage, String title) {
165         JOptionPane.showMessageDialog(null, errorMessage, title, JOptionPane.ERROR_MESSAGE);
166     } //end method showError
167
168     /**
169     * Method to style a button.
170     * @param btn the JButton to be styled.
171     */
172     public void styleButton(JButton btn) {
173         btn.setBorder(null);
174         btn.setForeground(Color.WHITE);
175         btn.setBackground(Color.BLACK);
176         btn.setFont(new Font("Verdana", Font.BOLD, 12));
177         btn.setAlignmentX(Component.CENTER_ALIGNMENT);
178     } //end method styleButton
179
180     /*-----ACTION LISTENERS-----*/
181
182     /**
183     * The routine to follow if "Add New Case" button is pressed.
184     * Constructs AddCaseInterface object to display new window to screen.
185     * @param event the "Add New Case" button is pressed.
186     * @param employees the List of Employee data required to be searched.
187     * @param clients the List of Client data to be added to.
188     * @param cases the List of Case data to be added to.
189     */
190     private void addCaseBtnActionPerformed(ActionEvent event, ArrayList<Employee> employees,
191         ArrayList<Client> clients, ArrayList<Case> cases) {
192         this.setVisible(false);
193         AddCaseInterface newCaseForm = new AddCaseInterface(employees, clients, cases);
194         newCaseForm.setVisible(true);
195     } //end method addCaseBtnActionPerformed
196
197     /**
198     * The routine to follow if the Search Button has been pressed.
199     * @param event the Search Button has been pressed.
200     * @param cases the List of Cases
201     * @param employees the List of Employees
202     * @param clients the List of Clients
203     */
204     private void searchButtonActionPerformed(ActionEvent event, ArrayList<Case> cases, ArrayList<Employee> employees, ArrayList<Client> clients) {
205         String caseNum = searchBarTxtField.getText();
206         try {
207             Client client = searchController.findCase(clients, caseNum);
208             if(client == null) {
209                 showError(error3, "Case Not Found");
210             } else {
211                 this.dispose();
212                 SearchResultInterface searchResults = new SearchResultInterface(employees, clients, cases, caseNum);
213                 searchResults.setVisible(true);
214             } //end if else
215         } //end try
216         catch(InputMismatchException e) {

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217         System.out.println("Case does not exist");
218     } //end catch
219 } //end method searchButtonActionPerformed
220
221 /**
222  * The routine to follow if "View Caseload" Button is pressed.
223  * Outputs data to console for testing purposes.
224  * @param event the "View Caseload" Button in navigation panel is pressed.
225  * @param clients the List from which data is retrieved.
226  */
227 private void viewAllCasesButtonActionPerformed(ActionEvent event, ArrayList<Employee> employees, ArrayList<Client> clients, ArrayList<Case>
cases) {
228     //searchController.viewAllCases(tArea, clients);
229     this.dispose();
230     SearchResultInterface searchResults = new SearchResultInterface(employees, clients, cases);
231     searchResults.setVisible(true);
232 } //end method viewAllCasesButtonActionPerformed
233 } //end class CommonElements
```