

```
1 package view;
2
3 import java.awt.Color;
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19
20
21 /**
22  * Class AddCaseInterface to construct interface for user to add a new Case.
23  * Interacts with NewCaseController to ensure data input is valid.
24  * @author Daria Vekic (Student ID: 586661)
25  *
26  */
27 public class HomeInterface extends JFrame {
28
29     private static final long serialVersionUID = 1L;
30     private CommonElements commonElements = new CommonElements();
31     private SearchCasesController searchController = new SearchCasesController();
32     private JPanel contentPane;
33     private JPanel totalCasesPanel;
34     private JTextArea totalCasesTxtArea;
35     private JTextPane totalCasesTxtPane;
36     //Labels for images
37     private JLabel imgLabelTotal;
38     private JLabel imgLabelImm;
39     private JLabel imgLabelCri;
40     private JLabel imgLabelPI;
41
42     /**
43      * Constructor method to create HomeInterface object.
44      * @param employees the List of Employees
45      * @param clients the List of Clients
46      * @param cases the List of Cases
47      */
48     public HomeInterface(ArrayList<Employee> employees, ArrayList<Client> clients, ArrayList<Case> cases) {
49         createHomeInterface(employees, clients, cases);
50     } //end constructor method
51
52     /**
53      * Method to create the home GUI.
54      * @param employees the List of Employees
55      * @param clients the List of Clients
56      * @param cases the List of Cases
57      */
58     private void createHomeInterface(ArrayList<Employee> employees, ArrayList<Client> clients, ArrayList<Case> cases){
59
60         setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
61         setBounds(100, 100, 1000, 700);
62         contentPane = new JPanel();
63         contentPane.setBackground(Color.DARK_GRAY);
64         contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
65         setContentPane(contentPane);
66         contentPane.setLayout(null);
67
68         commonElements.constructNavMenu(contentPane, employees, clients, cases);
69
70         totalCasesPanel = new JPanel();
```

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71     totalCasesPanel.setBounds(238, 190, 276, 155);
72     contentPane.add(totalCasesPanel);
73     totalCasesPanel.setLayout(null);
74
75     ImageIcon icon = createImageIcon("/img/mallett.png", "Image of mallett for decoration purposes");
76     imgLabelTotal = new JLabel(icon);
77     imgLabelTotal.setBounds(15, 17, 106, 122);
78     totalCasesPanel.add(imgLabelTotal);
79
80     totalCasesTxtArea = new JTextArea();
81     totalCasesTxtArea.setBounds(184, 51, 90, 49);
82     totalCasesPanel.add(totalCasesTxtArea);
83     totalCasesTxtArea.setAlignmentX(Component.RIGHT_ALIGNMENT);
84     totalCasesTxtArea.setWrapStyleWord(true);
85     totalCasesTxtArea.setFont(new Font("Arial", Font.BOLD, 14));
86     totalCasesTxtArea.setText("Total Cases:\r\n" + cases.size());
87     totalCasesTxtArea.setBackground(new Color(245, 255, 250));
88
89     totalCasesTxtPane = new JTextPane();
90     totalCasesTxtPane.setBounds(0, 0, 276, 155);
91     totalCasesPanel.add(totalCasesTxtPane);
92     totalCasesTxtPane.setEditable(false);
93     totalCasesTxtPane.setBackground(new Color(245, 255, 250));
94     totalCasesTxtPane.setFont(new Font("Arial", Font.BOLD, 14));
95
96     JPanel criCasesPanel = new JPanel();
97     criCasesPanel.setLayout(null);
98     criCasesPanel.setBounds(588, 190, 276, 155);
99     contentPane.add(criCasesPanel);
100
101     imgLabelCri = new JLabel(icon);
102     imgLabelCri.setBounds(15, 17, 106, 122);
103     criCasesPanel.add(imgLabelCri);
104
105     JTextArea criminalCasesTxtArea = new JTextArea();
106     criminalCasesTxtArea.setWrapStyleWord(true);
107     criminalCasesTxtArea.setText("Criminal Cases:\r\n" + searchController.countCrimCases(cases));
108     criminalCasesTxtArea.setFont(new Font("Arial", Font.BOLD, 14));
109     criminalCasesTxtArea.setBackground(new Color(245, 255, 250));
110     criminalCasesTxtArea.setAlignmentX(1.0f);
111     criminalCasesTxtArea.setBounds(161, 51, 113, 49);
112     criCasesPanel.add(criminalCasesTxtArea);
113
114     JTextPane criminalCasesTxtPane = new JTextPane();
115     criminalCasesTxtPane.setFont(new Font("Arial", Font.BOLD, 14));
116     criminalCasesTxtPane.setEditable(false);
117     criminalCasesTxtPane.setBackground(new Color(245, 255, 250));
118     criminalCasesTxtPane.setBounds(0, 0, 276, 155);
119     criCasesPanel.add(criminalCasesTxtPane);
120
121     JPanel immCasesPanel = new JPanel();
122     immCasesPanel.setLayout(null);
123     immCasesPanel.setBounds(238, 434, 276, 155);
124     contentPane.add(immCasesPanel);
```

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125
126     imgLabelImm = new JLabel(icon);
127     imgLabelImm.setBounds(15, 17, 106, 122);
128     immCasesPanel.add(imgLabelImm);
129
130     JTextArea immCasesTxtArea = new JTextArea();
131     immCasesTxtArea.setWrapStyleWord(true);
132     immCasesTxtArea.setText("Immigration Cases:\r\n" + searchController.countImmCases(cases));
133     immCasesTxtArea.setFont(new Font("Arial", Font.BOLD, 14));
134     immCasesTxtArea.setBackground(new Color(245, 255, 250));
135     immCasesTxtArea.setAlignmentX(1.0f);
136     immCasesTxtArea.setBounds(136, 51, 138, 49);
137     immCasesPanel.add(immCasesTxtArea);
138
139     JTextPane immCasesTxtPane = new JTextPane();
140     immCasesTxtPane.setFont(new Font("Arial", Font.BOLD, 14));
141     immCasesTxtPane.setEditable(false);
142     immCasesTxtPane.setBackground(new Color(245, 255, 250));
143     immCasesTxtPane.setBounds(0, 0, 276, 155);
144     immCasesPanel.add(immCasesTxtPane);
145
146     JPanel pInjuryCasesPanel = new JPanel();
147     pInjuryCasesPanel.setLayout(null);
148     pInjuryCasesPanel.setBounds(588, 434, 276, 155);
149     contentPane.add(pInjuryCasesPanel);
150
151     imgLabelPI = new JLabel(icon);
152     imgLabelPI.setBounds(15, 17, 106, 122);
153     pInjuryCasesPanel.add(imgLabelPI);
154
155     JTextArea pInjuryCasesTxtArea = new JTextArea();
156     pInjuryCasesTxtArea.setWrapStyleWord(true);
157     pInjuryCasesTxtArea.setText("PI Cases:\r\n" + searchController.countPICases(cases));
158     pInjuryCasesTxtArea.setFont(new Font("Arial", Font.BOLD, 14));
159     pInjuryCasesTxtArea.setBackground(new Color(245, 255, 250));
160     pInjuryCasesTxtArea.setAlignmentX(1.0f);
161     pInjuryCasesTxtArea.setBounds(205, 51, 69, 49);
162     pInjuryCasesPanel.add(pInjuryCasesTxtArea);
163
164     JTextPane pInjuryCasesTxtPane = new JTextPane();
165     pInjuryCasesTxtPane.setFont(new Font("Arial", Font.BOLD, 14));
166     pInjuryCasesTxtPane.setEditable(false);
167     pInjuryCasesTxtPane.setBackground(new Color(245, 255, 250));
168     pInjuryCasesTxtPane.setBounds(0, 0, 276, 155);
169     pInjuryCasesPanel.add(pInjuryCasesTxtPane);
170
171     setTitle("McRae&DICK Case Management System");
172     setLocationRelativeTo(null);
173 } //end method createHomeInterface
174
175 //Method taken from: https://docs.oracle.com/javase/tutorial/uiswing/components/icon.html
176 /** Returns an ImageIcon, or null if the path was invalid. */
177 protected ImageIcon createImageIcon(String path,
178                                     String description) {

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```
179         java.net.URL imgURL = getClass().getResource(path);
180         if (imgURL != null) {
181             return new ImageIcon(imgURL, description);
182         } else {
183             System.err.println("Couldn't find file: " + path);
184             return null;
185         }
186     }
187 } //end class HomeInterface
```