AddCaseInterface.java Sunday, 14 May 2023, 14:33

```
1 package view;
2
3 import java.awt.Color;
29 / * *
30 * Class AddCaseInterface to construct interface for user to add a new Case.
31 * Interacts with NewCaseController to ensure data input is valid.
32 * @author Daria Vekic (Student ID: 586661)
33 *
34 */
35 public class AddCaseInterface extends JFrame {
36
37
      private static final long serialVersionUID = 1L;
38
      //Instance fields for AddCaseInterface
39
      private JPanel contentPane;
40
      private JTextField fNameTxtField;
      private JTextField lNameTxtField;
42
      private JTextField dobTxtField;
      private JTextField addressFirstLineTxtField;
44
      private JTextField addressSecondLineTxtField;
      private JTextField postcodeTxtField;
46
      private JTextField phoneNumTxtField;
47
      private JTextField caseTitleTxtField;
48
      private JTextArea caseDescriptionTxtArea;
      private JComboBox caseTypeComboBox;
49
50
      private JComboBox engTypeComboBox;
      private JComboBox solComboBox;
51
52
      private JButton confirmCaseButton;
5.3
      private CommonElements commonElements = new CommonElements(); //to access common elements
54
      private NewCaseController controller = new NewCaseController(); //for Controller interaction
55
56
57
58
       * Constructor method that calls createNewCaseForm() method.
59
       * @param employees the List of Employees to be searched.
60
       * @param clients the List of Clients to be added to.
61
       * @param cases the List of Cases to be added to.
62
63
      public AddCaseInterface(ArrayList<Employee> employees, ArrayList<Client> clients, ArrayList<Case> cases) {
64
          createNewCaseForm(employees, clients, cases);
      } //end constructor method
65
66
67
68
69
       * Method to construct the GUI.
70
       * @param employees the List of Employees to be searched.
71
       * @param clients the List of Clients to be added to.
72
       * @param cases the List of Cases to be added to.
73
74
      private void createNewCaseForm(ArrayList<Employee> employees, ArrayList<Client> clients, ArrayList<Case> cases) {
75
          setDefaultCloseOperation(JFrame.DISPOSE ON CLOSE);
76
          setBounds(100, 100, 1100, 710);
77
          contentPane = new JPanel();
78
          contentPane.setBackground(Color.DARK GRAY);
```

```
79
           contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
 80
           setContentPane (contentPane);
 81
           contentPane.setLayout(null);
 82
 83
           //add the navigation menu to the GUI
 84
           commonElements.constructNavMenu(contentPane, employees, clients, cases);
 85
 86
           JLabel caseFormLabel = new JLabel("Case Details");
 87
           caseFormLabel.setFont(new Font("Verdana", Font.BOLD, 16));
 88
           caseFormLabel.setForeground(Color.WHITE);
 89
           caseFormLabel.setBounds(223, 130, 126, 22);
 90
           contentPane.add(caseFormLabel);
 91
           JLabel clientFormLabel = new JLabel("Client Details");
 92
 93
           clientFormLabel.setForeground(Color.WHITE);
 94
           clientFormLabel.setFont(new Font("Verdana", Font.BOLD, 16));
 95
           clientFormLabel.setBounds(502, 130, 126, 22);
 96
           contentPane.add(clientFormLabel);
 97
 98
           JLabel solicitorFormLabel = new JLabel("Solicitor Details");
 99
           solicitorFormLabel.setForeground(Color.WHITE);
100
           solicitorFormLabel.setFont(new Font("Verdana", Font.BOLD, 16));
101
           solicitorFormLabel.setBounds(835, 130, 155, 22);
102
           contentPane.add(solicitorFormLabel);
103
104
           caseTypeComboBox = new JComboBox();
105
           caseTypeComboBox.setForeground(Color.BLACK);
106
           caseTypeComboBox.setFont(new Font("Verdana", Font.ITALIC, 10));
           caseTypeComboBox.setModel(new DefaultComboBoxModel(CaseType.values()));
107
108
           caseTypeComboBox.setBounds(299, 163, 140, 33);
109
           caseTypeComboBox.addActionListener(new ActionListener()
110
111
               public void actionPerformed(ActionEvent event) {
112
                    caseTypeComboBoxActionPerformed(event);
               } //end method actionPerformed
113
114
           } //end method ActionListener
115
           ); //end call to caseTypeComboBoxActionPerformed ActionListener
116
           contentPane.add(caseTypeComboBox);
117
118
           JLabel caseTypeLabel = new JLabel("Case Type:");
119
           caseTypeLabel.setFont(new Font("Verdana", Font.BOLD, 12));
120
           caseTypeLabel.setForeground(Color.WHITE);
121
           caseTypeLabel.setBounds(223, 174, 73, 14);
122
           contentPane.add(caseTypeLabel);
123
124
           JLabel fNameLabel = new JLabel("Client First Name:");
125
           fNameLabel.setForeground(Color.WHITE);
126
           fNameLabel.setFont(new Font("Verdana", Font.BOLD, 12));
           fNameLabel.setBounds(471, 174, 126, 14);
127
128
           contentPane.add(fNameLabel);
129
130
           fNameTxtField = new JTextField();
131
           fNameTxtField.addMouseListener(new MouseAdapter() {
132
               @Override
```

```
133
               public void mouseClicked(MouseEvent e) {
134
                    fNameTxtField.setText("");
135
               } //end method mouseClicked
136
            } //end method MouseAdapter
137
           ); //end call to MouseListener
138
            fNameTxtField.setForeground(Color.GRAY);
139
            fNameTxtField.setFont(new Font("Verdana", Font.PLAIN, 9));
140
            fNameTxtField.setText("Enter first name");
141
            fNameTxtField.setToolTipText("Name must start with capital letter and cannot contain numbers");
142
            fNameTxtField.setBounds(593, 166, 140, 33);
143
            contentPane.add(fNameTxtField);
144
            fNameTxtField.setColumns(10);
145
146
            JLabel | NameLabel = new JLabel("Client Last Name:");
147
            lNameLabel.setForeground(Color.WHITE);
148
            lNameLabel.setFont(new Font("Verdana", Font.BOLD, 12));
149
            lNameLabel.setBounds(471, 218, 126, 14);
150
            contentPane.add(lNameLabel);
151
           lNameTxtField = new JTextField();
152
153
            lNameTxtField.setText("Enter last name");
154
           lNameTxtField.setToolTipText("Name must start with capital letter and cannot contain numbers");
155
           lNameTxtField.setForeground(Color.GRAY);
156
           lNameTxtField.setFont(new Font("Verdana", Font.PLAIN, 9));
157
           lNameTxtField.setColumns(10);
158
            lNameTxtField.setBounds(593, 210, 140, 33);
           lNameTxtField.addMouseListener(new MouseAdapter() {
159
160
               @Override
161
               public void mouseClicked(MouseEvent e) {
162
                    lNameTxtField.setText("");
163
               } //end method mouseClicked
164
            } //end method MouseAdapter
165
           ); //end call to MouseListener
166
            contentPane.add(lNameTxtField);
167
168
            JLabel dobLabel = new JLabel("Client DOB:");
169
            dobLabel.setForeground(Color.WHITE);
170
            dobLabel.setFont(new Font("Verdana", Font.BOLD, 12));
171
           dobLabel.setBounds(510, 275, 87, 14);
172
           contentPane.add(dobLabel);
173
174
           dobTxtField = new JTextField();
175
           dobTxtField.setText("DD/MM/YYYY");
176
           dobTxtField.setToolTipText("DOB must be entered in format DD/MM/YYYY");
177
            dobTxtField.setForeground(Color.GRAY);
178
           dobTxtField.setFont(new Font("Verdana", Font.PLAIN, 9));
179
           dobTxtField.setColumns(10);
180
           dobTxtField.setBounds(593, 267, 140, 33);
181
           dobTxtField.addMouseListener(new MouseAdapter() {
182
               @Override
183
               public void mouseClicked(MouseEvent e) {
184
                    dobTxtField.setText("");
185
                } //end method mouseClicked
186
           } //end method MouseAdapter
```

```
187
           ); //end call to MouseListener
188
           contentPane.add(dobTxtField);
189
190
           JLabel addressLabel = new JLabel("Client address:");
191
           addressLabel.setForeground(Color.WHITE);
192
           addressLabel.setFont(new Font("Verdana", Font.BOLD, 12));
193
           addressLabel.setBounds(487, 335, 110, 14);
194
           contentPane.add(addressLabel);
195
           addressFirstLineTxtField = new JTextField();
196
197
           addressFirstLineTxtField.setText("Address line 1");
198
           addressFirstLineTxtField.setToolTipText("Enter Client's first line of address");
199
           addressFirstLineTxtField.setForeground(Color.GRAY);
200
           addressFirstLineTxtField.setFont(new Font("Verdana", Font.PLAIN, 9));
201
           addressFirstLineTxtField.setColumns(10);
202
           addressFirstLineTxtField.setBounds(593, 327, 140, 33);
203
           addressFirstLineTxtField.addMouseListener(new MouseAdapter() {
204
               @Override
205
               public void mouseClicked(MouseEvent e) {
206
                   addressFirstLineTxtField.setText("");
207
               } //end method mouseClicked
208
           } //end method MouseAdapter
209
           ); //end call to MouseListener
210
           contentPane.add(addressFirstLineTxtField);
211
212
           addressSecondLineTxtField = new JTextField();
           addressSecondLineTxtField.setText("Address line 2");
213
214
           addressSecondLineTxtField.setToolTipText("Enter Client's second line of address");
215
           addressSecondLineTxtField.setForeground(Color.GRAY);
216
           addressSecondLineTxtField.setFont(new Font("Verdana", Font.PLAIN, 9));
217
           addressSecondLineTxtField.setColumns(10);
218
           addressSecondLineTxtField.setBounds(593, 363, 140, 33);
219
           addressSecondLineTxtField.addMouseListener(new MouseAdapter() {
220
               public void mouseClicked(MouseEvent e) {
221
222
                   addressSecondLineTxtField.setText("");
223
               } //end method mouseClicked
224
           } //end method MouseAdapter
225
           ); //end call to MouseListener
226
           contentPane.add(addressSecondLineTxtField);
227
228
           postcodeTxtField = new JTextField();
229
           postcodeTxtField.setText("Enter postcode");
           postcodeTxtField.setToolTipText("UK postcodes only. Case insensitive and no space required");
2.30
231
           postcodeTxtField.setForeground(Color.GRAY);
232
           postcodeTxtField.setFont(new Font("Verdana", Font.PLAIN, 9));
233
           postcodeTxtField.setColumns(10);
234
           postcodeTxtField.setBounds(593, 407, 140, 33);
235
           postcodeTxtField.addMouseListener(new MouseAdapter() {
236
237
               public void mouseClicked(MouseEvent e) {
238
                   postcodeTxtField.setText("");
239
               } //end method mouseClicked
240
           } //end method MouseAdapter
```

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```
241
           ); //end call to MouseListener
242
           contentPane.add(postcodeTxtField);
243
2.44
           JLabel postcodeLabel = new JLabel("Client postcode:");
245
           postcodeLabel.setForeground(Color.WHITE);
246
           postcodeLabel.setFont(new Font("Verdana", Font.BOLD, 12));
247
           postcodeLabel.setBounds(481, 415, 116, 14);
248
           contentPane.add(postcodeLabel);
249
           JLabel phoneNumLabel = new JLabel("Client phone no.:");
2.50
251
           phoneNumLabel.setForeground(Color.WHITE);
252
           phoneNumLabel.setFont(new Font("Verdana", Font.BOLD, 12));
           phoneNumLabel.setBounds(481, 478, 116, 14);
253
254
           contentPane.add(phoneNumLabel);
255
256
           phoneNumTxtField = new JTextField();
257
           phoneNumTxtField.setText("Enter phone no.");
258
           phoneNumTxtField.setToolTipText("Must start with 0");
259
           phoneNumTxtField.setForeground(Color. GRAY);
           phoneNumTxtField.setFont(new Font("Verdana", Font.PLAIN, 9));
260
261
           phoneNumTxtField.setColumns(10);
2.62
           phoneNumTxtField.setBounds(593, 470, 140, 33);
263
           phoneNumTxtField.addMouseListener(new MouseAdapter() {
264
               @Override
2.65
               public void mouseClicked(MouseEvent e) {
266
                   phoneNumTxtField.setText("");
267
               } //end method mouseClicked
268
           } //end method MouseAdapter
           ); //end call to MouseListener
2.69
270
           contentPane.add(phoneNumTxtField);
271
272
           JLabel engTypeLabel = new JLabel("Enquiry Type:");
273
           engTypeLabel.setForeground(Color.WHITE);
2.74
           engTypeLabel.setFont(new Font("Verdana", Font.BOLD, 12));
275
           engTypeLabel.setBounds(497, 532, 110, 14);
276
           contentPane.add(engTypeLabel);
2.77
2.78
           engTypeComboBox = new JComboBox();
279
           engTypeComboBox.setModel(new DefaultComboBoxModel(CaseType.values()));
280
           enqTypeComboBox.setToolTipText("Select a type from the list");
281
           enqTypeComboBox.setForeground(Color.BLACK);
282
           engTypeComboBox.setFont(new Font("Verdana", Font.ITALIC, 10));
283
           engTypeComboBox.setBounds(593, 524, 140, 33);
2.84
           engTypeComboBox.addActionListener(new ActionListener()
285
286
               public void actionPerformed(ActionEvent event) {
287
                    engTypeComboBoxActionPerformed(event);
288
               } //end method actionPerformed
289
           } //end method ActionListener
290
           ); //end call to engTypeComboBoxActionPerformed ActionListener
291
           contentPane.add(engTypeComboBox);
292
293
           JLabel solLabel = new JLabel("Solicitor:");
294
           solLabel.setForeground(Color.WHITE);
```

```
295
           solLabel.setFont(new Font("Verdana", Font.BOLD, 12));
296
           solLabel.setBounds(809, 174, 73, 14);
297
           contentPane.add(solLabel);
298
299
           String[] empNames = controller.getNames(employees);
300
           solComboBox = new JComboBox<Object>(empNames);
301
           solComboBox.setToolTipText("Select the Solicitor that will handle this Case");
302
           solComboBox.setForeground(Color.BLACK);
303
           solComboBox.setFont(new Font("Verdana", Font.ITALIC, 10));
304
           solComboBox.setBounds(881, 163, 140, 33);
305
           contentPane.add(solComboBox);
306
307
           JLabel caseTitleLabel = new JLabel("Case Title:");
308
           caseTitleLabel.setForeground(Color.WHITE);
309
           caseTitleLabel.setFont(new Font("Verdana", Font.BOLD, 12));
310
           caseTitleLabel.setBounds(223, 219, 73, 14);
311
           caseTitleLabel.addMouseListener(new MouseAdapter() {
312
               @Override
313
               public void mouseClicked(MouseEvent e) {
314
                   caseTitleLabel.setText("");
315
               } //end method mouseClicked
316
           } //end method MouseAdapter
317
           ); //end call to MouseListener
318
           contentPane.add(caseTitleLabel);
319
320
           caseTitleTxtField = new JTextField();
321
           caseTitleTxtField.setText("Enter case title");
322
           caseTitleTxtField.setToolTipText("Enter in format [Client surname] v [Opponent]");
323
           caseTitleTxtField.setForeground(Color.GRAY);
324
           caseTitleTxtField.setFont(new Font("Verdana", Font.PLAIN, 9));
325
           caseTitleTxtField.setColumns(10);
326
           caseTitleTxtField.setBounds(299, 207, 140, 33);
327
           //Clear the field ready for user input
328
           caseTitleTxtField.addMouseListener(new MouseAdapter() {
329
               @Override
330
               public void mouseClicked(MouseEvent e) {
331
                    caseTitleTxtField.setText("");
332
               } //end method mouseClicked
333
           } //end method MouseAdapter
334
           ); //end call to MouseListener
335
           contentPane.add(caseTitleTxtField);
336
337
           JLabel caseDescriptionLabel = new JLabel("Description:");
           caseDescriptionLabel.setForeground(Color.WHITE);
338
339
           caseDescriptionLabel.setFont(new Font("Verdana", Font.BOLD, 12));
340
           caseDescriptionLabel.setBounds(209, 255, 87, 14);
341
           contentPane.add(caseDescriptionLabel);
342
343
           caseDescriptionTxtArea = new JTextArea();
344
           caseDescriptionTxtArea.setLineWrap(true);
345
           caseDescriptionTxtArea.setForeground(Color.GRAY);
346
           caseDescriptionTxtArea.setFont(new Font("Verdana", Font.PLAIN, 10));
347
           caseDescriptionTxtArea.setText("Enter description here");
348
           caseDescriptionTxtArea.setToolTipText("Enter a brief description of the Case");
```

```
349
           caseDescriptionTxtArea.setBounds(299, 251, 140, 145);
350
           caseDescriptionTxtArea.addMouseListener(new MouseAdapter() {
351
               @Override
352
               public void mouseClicked(MouseEvent e) {
353
                   caseDescriptionTxtArea.setText("");
354
               } //end method mouseClicked
355
           } //end method MouseAdapter
356
           ); //end call to MouseListener
           contentPane.add(caseDescriptionTxtArea);
357
358
359
           confirmCaseButton = new JButton("Confirm New Case");
360
           confirmCaseButton.setBorder(null);
           confirmCaseButton.setBackground(new Color(144, 238, 144));
361
362
           confirmCaseButton.setAlignmentX(Component.CENTER ALIGNMENT);
363
           confirmCaseButton.setFont(new Font("Arial", Font.BOLD, 14));
364
           confirmCaseButton.setBounds(840, 554, 181, 85);
365
           confirmCaseButton.addActionListener(new ActionListener()
366
367
               public void actionPerformed(ActionEvent event) {
368
369
                       confirmCaseButtonActionPerformed(event, employees, clients, cases);
370
                   } //end trv
371
                   catch (ParseException e) {
372
                       e.printStackTrace();
373
                   } //end catch
374
               } //end method actionPerformed
           } //end method ActionListener
375
376
           ); //end call to confirmCaseButtonActionPerformed ActionListener
377
           contentPane.add(confirmCaseButton);
378
379
           setLocationRelativeTo(null);
380
       } //end method createNewCaseForm
381
382
383
384
        * Method to reset all fields back to their original state.
385
        * Used after a new Case is successfully confirmed.
386
387
       private void resetAllFields() {
388
           caseTitleTxtField.setText("Enter case title");
389
           caseTitleTxtField.setBorder(new EmptyBorder(5, 5, 5, 5));
390
           caseDescriptionTxtArea.setText("Enter description here");
391
           caseDescriptionTxtArea.setBorder(new EmptyBorder(5, 5, 5, 5));
           fNameTxtField.setText("Enter first name");
392
393
           fNameTxtField.setBorder(new EmptyBorder(5, 5, 5, 5));
394
           lNameTxtField.setText("Enter last name");
395
           lNameTxtField.setBorder(new EmptyBorder(5, 5, 5, 5));
396
           dobTxtField.setText("DD/MM/YYYY");
397
           dobTxtField.setBorder(new EmptyBorder(5, 5, 5, 5));
398
           addressFirstLineTxtField.setText("Address line 1");
           addressFirstLineTxtField.setBorder(new EmptyBorder(5, 5, 5, 5));
399
400
           addressSecondLineTxtField.setText("Address line 2");
401
           addressSecondLineTxtField.setBorder(new EmptyBorder(5, 5, 5, 5));
402
           postcodeTxtField.setText("Enter postcode");
```

AddCaseInterface.java 403 postcodeTxtField.setBorder(new EmptyBorder(5, 5, 5, 5)); 404 phoneNumTxtField.setText("Enter phone no."); 405 phoneNumTxtField.setBorder(new EmptyBorder(5, 5, 5, 5)); 406 } //end method resetAllFields 407 408 /*----*/ 409 410 411 412 413 * Method to set value of Enquiry Type combo box to match Case Type Combo Box. 414 * An Enquiry Type will always match a Case Type 415 * @param event the user selects a value in the Case Type Combo Box. 416 417 private void caseTypeComboBoxActionPerformed(ActionEvent event) { 418 enqTypeComboBox.setSelectedItem(); 419 } //end method caseTypeComboBoxButtonActionPerformed 420 421 422 423 * The routine to follow if the "Confirm Case" Button is pressed. 424 * @param event the "Confirm Case" button is pressed. 425 * @param employees the List of Employee objects to be searched. 426 * @param cases the List the new Case object will be added to. * @param clients the List the Client object will be added to. 427 428 * @throws ParseException thrown if the DOB field cannot be parsed. 429 private void confirmCaseButtonActionPerformed(ActionEvent event, ArrayList<Employee> employees, 430 431 ArrayList<Client> clients, ArrayList<Case> cases) throws ParseException { 432 int emptyFields = controller.checkEmpty(caseTitleTxtField, caseDescriptionTxtArea, fNameTxtField, lNameTxtField, 433 dobTxtField, addressFirstLineTxtField, addressSecondLineTxtField, postcodeTxtField, 434 phoneNumTxtField); 435 //if there's no empty fields 436 if(emptyFields==0) { 437 boolean added = controller.addNewCase(caseTitleTxtField, caseTypeComboBox, caseDescriptionTxtArea, 438 solComboBox, fNameTxtField, lNameTxtField, 439 dobTxtField, addressFirstLineTxtField, addressSecondLineTxtField, 440 postcodeTxtField, phoneNumTxtField, employees, clients, cases); 441 if(added) { //if added is true 442 resetAllFields(); 443 } else { 444 commonElements.showError(controller.error11, "Invalid Fields"); 445 446 447 else {//else field(s) empty 448 commonElements.showError(controller.error2, "Empty fields"); 449 }//end if else 450 } //end method confirmCaseButtonActionPerformed 451 452 453 454 * Method to set value of Case combo box to match Enquiry Type Combo Box. 455 * A Case Type will always match Enquiry Type. 456 * @param event the user selects a value in the Enquiry Type Combo Box.

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