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1 package use_case_controller;
2
3 import java.util.ArrayList;
4
5 /**
6  * Class SearchCasesController to manage functionality of searching Cases.
7  * @author Daria Vekic (Student ID: 586661)
8  *
9  */
10 public class SearchCasesController {
11
12     /**
13      * Method to count the number of Criminal Cases in the List.
14      * @param cases the List to be searched through.
15      * @return crimCount the number of Criminal Cases in the List.
16      */
17     public String countCrimCases(ArrayList<Case> cases) {
18         int crimCount = 0;
19         for(int i = 0; i<cases.size(); i++) {
20             if(cases.get(i).getType().toString().equals("CRI")) {
21                 crimCount++;
22             } //endif
23         } //endfor
24         return Integer.toString(crimCount);
25     } //end method countCrimCases
26
27     /**
28      * Method to count the number of Immigration Cases in the List.
29      * @param cases the List to be searched through.
30      * @return immCount the number of Immigration Cases in the List.
31      */
32     public String countImmCases(ArrayList<Case> cases) {
33         int immCount = 0;
34         for(int i = 0; i<cases.size(); i++) {
35             if(cases.get(i).getType().toString().equals("IMM")) {
36                 immCount++;
37             } //endif
38         } //endfor
39         return Integer.toString(immCount);
40     } //end method countImmCases
41
42     /**
43      * Method to count the number of Personal Injury Cases in the List.
44      * @param cases the List to be searched through.
45      * @return pInjCount the number of Personal Injury Cases in the List.
46      */
47     public String countPICases(ArrayList<Case> cases) {
48         int pInjCount = 0;
49         for(int i = 0; i<cases.size(); i++) {
50             if(cases.get(i).getType().toString().equals("PIN")) {
51                 pInjCount++;
52             } //endif
53         } //endfor
54         return Integer.toString(pInjCount);
55     }
56 }
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63     } //end method countPICases
64
65     /**
66     * Method to retrieve a single Case using a given case number.
67     * @param clients the List of Clients through which a Case is retrieved.
68     * @param caseNum the reference number of Case to be retrieved.
69     * @return the Client to which this Case is attached; null otherwise.
70     */
71     public Client findCase(ArrayList<Client> clients, String caseNum) {
72         Iterator<Client> iterator = clients.iterator();
73         while(iterator.hasNext()) {
74             Client client = iterator.next(); //store current iterator value in client
75             if(client.getCASE().getCASE_REF_NUM().equals(caseNum)) //if the Case Ref Num is found
76                 return client; //return the iterator value
77         } //end while
78         return null;
79     } //end method findCase
80
81     /**
82     * Method to output data of a single Case.
83     * @param clients the List of Clients through which a Case is retrieved.
84     * @param caseNum the reference number of Case to be displayed.
85     * @param caseNumLbl the Label to display Case number.
86     * @param titleLbl the Label to display Case title.
87     * @param typeLbl the Label to display Case type.
88     * @param solLbl the Label to display Employee name.
89     * @param descLbl the Label to display Case description.
90     * @param nameLbl the Label to display Client name.
91     * @param phoneLbl the Label to display Client phone number.
92     * @param addressLbl the Label to display Client address.
93     */
94     public void listCase(ArrayList<Client> clients, String caseNum, JLabel caseNumLbl,
95         JLabel titleLbl, JLabel typeLbl, JLabel solLbl, JLabel descLbl,
96         JLabel nameLbl, JLabel phoneLbl, JLabel addressLbl) {
97         //find the data
98         Client client = findCase(clients, caseNum);
99         //update labels to output info
100        caseNumLbl.setText(client.getCASE().getCASE_REF_NUM());
101        titleLbl.setText(client.getCASE().getTitle());
102        typeLbl.setText(client.getCASE().getType().toString());
103        solLbl.setText(client.getCASE().getSOLICITOR().getFullName());
104        descLbl.setText(client.getCASE().getDescription());
105        nameLbl.setText(client.getFullName());
106        phoneLbl.setText(client.getPhoneNum());
107        addressLbl.setText(client.getAddressLineOne() + ", " + client.getAddressLineTwo() + ", " + client.getPostcode());
108    } //end method displayCase
109
110    /**
111    * Method that retrieves and outputs various Case data for every Case in the List.
112    * Outputs to text area for testing purposes.
113    * @param tArea used to output data to a given text area.
114    * @param clients the List to retrieve data from.
115    */
116    public void viewAllCases(JTextArea tArea, ArrayList<Client> clients) {

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```
117         //System.out.println("Caseload");
118         try {
119             for(int i=0; i<clients.size(); i++) {
120                 tArea.append("\n\nCase Reference Number : " + clients.get(i).getCASE().getCASE_REF_NUM());
121                 tArea.append("\nCase Type : " + clients.get(i).getCASE().getType());
122                 tArea.append("\nSolicitor Name : " + clients.get(i).getCASE().getSOLICITOR().getFullName());
123                 tArea.append("\nClient Name : " + clients.get(i).getFullName());
124                 tArea.append("\nClient Phone No. : " + clients.get(i).getPhoneNum());
125                 tArea.append("\nClient Postcode : " + clients.get(i).getPostcode());
126                 tArea.append("\nCase Description : " + clients.get(i).getCASE().getDescription().replaceAll("\n", " "));
127             } //endfor
128         } //end try
129         catch (IndexOutOfBoundsException i) {
130             JOptionPane.showMessageDialog(null, "Sorry, no Cases to display.", "Caseload Empty", JOptionPane.INFORMATION_MESSAGE);
131         } //end catch
132     } //end method viewAllCases
133 } //end class SearchCasesController
```