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1  import java.awt.event.ActionEvent;
2  import java.awt.event.ActionListener;
3
4  import javax.swing.AbstractButton;
5  import javax.swing.JButton;
6  import javax.swing.JFrame;
7  import javax.swing.JOptionPane;
8
9  /*****
10 * Dalton Nofs
11 * Login ID: nofs5491
12 * CS-102, Summer 2017
13 * Programming Assignment 5
14 * EventHandlers class: collection of event handlers
15 *****/
16 public interface EventHandler
17 {
18     /*****
19     * Class: MainWindowHandler
20     * Purpose: handler for mainWindow
21     *
22     * Parameters: N/A
23     * Returns: void: N/A
24     *****/
25     public class MainWindowHandler implements ActionListener
26     {
27         // check which button was pressed
28         public void actionPerformed( ActionEvent action )
29         {
30             // hide the ui so more commands cant be run while this one is running
31             UserInterface.getMainWindow().setVisible(false);
32
33             // if search for num is pressed
34             if(((JButton)action.getSource()).getText().equals("Search for course number"))
35             {
36                 try
37                 {
38                     // ask user for course number
39                     String inputValue = JOptionPane.showInputDialog("Enter the Course Number:");
40                     Prog5.searchCourseNumInt(inputValue); // search for num
41                     UserInterface.getMainWindow().setVisible(true); // make visible again
42                 }
43                 catch( NullPointerException exc ) { /* do nothing user just hit cancel */ }
44             }
45             // if search for title is pressed
46             else if(((JButton)action.getSource()).getText().equals("Search course titles"))
47             {
48                 try
49                 {
50                     // ask user for course title
51                     String inputValue = JOptionPane.showInputDialog("Enter the Course Title:");
52                     Prog5.searchCourseTitleInt(inputValue); // search for title
53                     UserInterface.getMainWindow().setVisible(true);
54                 }
55                 catch( NullPointerException exc ) { /* do nothing user just hit cancel */ }
56             }
57             // if print database is pressed
58             else if(((JButton)action.getSource()).getText().equals("Print all records"))
59             {
60                 Prog5.printDatabaseInt(); // print the database out
61                 UserInterface.getMainWindow().setVisible(true);
62             }
63             // if compute gpa is pressed
64             else if(((JButton)action.getSource()).getText().equals("Compute GPA"))
65             {
66                 Prog5.calculateGPAInt(); // print the calculated gpa
67                 UserInterface.getMainWindow().setVisible(true);

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68     }
69     // if add course is pressed
70     else if(((JButton)action.getSource()).getText().equals("Add Course"))
71     {
72         try
73         {
74             Prog5.userAddCourse(Prog5.courseData); // start the add course prompts
75             UserInterface.getMainWindow().setVisible(true);
76         }
77         catch( NullPointerException exc ) { /* do nothing user just hit cancel */ }
78     }
79     // if remove course is pressed
80     else if(((JButton)action.getSource()).getText().equals("Remove Course"))
81     {
82         try
83         {
84             Prog5.userRemoveCourse(Prog5.courseData); // start the remove course prompts
85         }
86         catch( NullPointerException exc ) { /* do nothing user just hit cancel */ }
87     }
88     // if edit course is pressed
89     else if(((JButton)action.getSource()).getText().equals("Edit Course"))
90     {
91         try
92         {
93             Prog5.userEditCourse(Prog5.courseData); // start the edit course prompts
94         }
95         catch( NullPointerException exc ) { /* do nothing user just hit cancel */ }
96     }
97     // if store database is pressed
98     else if(((JButton)action.getSource()).getText().equals("Store Database"))
99     {
100         try
101         {
102             Prog5.userStore(Prog5.courseData); // start the store prompts
103             UserInterface.getMainWindow().setVisible(true);
104         }
105         catch( NullPointerException exc ) { /* do nothing user just hit cancel */ }
106     }
107     // if reload database is pressed
108     else if(((JButton)action.getSource()).getText().equals("Reload Database"))
109     {
110         try
111         {
112             Prog5.userReload(Prog5.courseData); // start the reload prompts
113             UserInterface.getMainWindow().setVisible(true);
114         }
115         catch( NullPointerException exc ) { /* do nothing user just hit cancel */ }
116     }
117     // if exit database is pressed
118     else if(((JButton)action.getSource()).getText().equals("Exit"))
119     {
120         System.exit(0);
121     }
122     // default catch for button presses
123     else
124     {
125         UserInterface.getMainWindow().setVisible(false);
126         UserInterface.sendWarning("There was an even but wasnt within "+
127             "the expected events", "Error");
128         UserInterface.getMainWindow().setVisible(true);
129     }
130     // unhide the ui so the user can pick a new task
131     //UserInterface.getMainWindow().setVisible(true);
132 }
133 }
134 }
```