

Module 3 OverviewZyBooks - IntroductionTopic ModulesModule 3: Critical ThinkingHTML Color Empowered.comWriting CenterCritical ThinkingJustin Derengo

https://github.com/JustinDerengo/CriticalThinking3/blob/master/src/userInterface/UserInterface.java

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.settings

src/userInterface

Main.java

UserInterface.java

.classpath

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log.txt

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CriticalThinking3 / src / userInterface / UserInterface.java

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```
11 public class UserInterface extends JFrame {
16     public UserInterface() {
17         // ...
55
56         exitItem.addActionListener(new ActionListener() {
57             public void actionPerformed(ActionEvent e) {
58                 System.exit(0);
59             }
60         });
61
62         //need to add the menu and the menu items to the bar of the JFrame
63         menuBar.add(menu);
64
65         menu.add(dateTimeItem);
66         menu.add(saveToFileItem);
67         menu.add(changeBackgroundColorItem);
68         menu.add(exitItem);
69
70
71     }
72
73     /*
74     * this method will create a new date and time format and append it to the text area
75     * @param:none
76     * @return:void
77     * @throws:none
78     */
79     private void printDateTime() {
80         SimpleDateFormat dateFormat = new SimpleDateFormat ("yyyy-MM-dd HH:mm:ss");
```

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```
79     private void printDateTime() {
80         SimpleDateFormat dateFormat = new SimpleDateFormat ("yyyy-MM-dd HH:mm:ss");
81         String dateTime = dateFormat.format(new Date());
82         textArea.append(dateTime + "\n");
83     }
84
85     /*
86     * this method will try to create a new log.txt file using FileWriter, BufferedWriter, and PrintWriter
87     * and will display a message when it is done, or failed
88     * @param:none
89     * @return:void
90     * @throws:error saving to file
91     */
92     private void saveToFile() {
93         try {FileWriter writer = new FileWriter("log.txt", true);
94             BufferedWriter bufferedWriter = new BufferedWriter(writer);
95             PrintWriter out = new PrintWriter(bufferedWriter)} {
96             String text = textArea.getText();
97             out.println(text);
98             JOptionPane.showMessageDialog(this, "Saved to log.txt");
99         } catch (IOException e) {
100             JOptionPane.showMessageDialog(this, "Error saving to file: " + e.getMessage());
101         }
102     }
103
104     /*
105     * this method will change the background color of the text field to a random hue of orange
```