Jenna Daly

Final Writeup

Dr. Rivas

8 May 2017

Abstract: The following paper describes my final project. I created a basic text editor, one where you can change the color and weight of a preset line of text.

Introduction: I decided to make the editor after I was initially going to make a photo editor, but I wasn't sure how to approach that in Java. So, I made a text editor instead which I actually found more interesting just because I use photo editors nearly everyday, but my text is usually black and normal weight. The rest of the paper will address how my system works and what it does.

Detailed System Description: The system can change the color and weight of a preset phrase of text. The user does this through code that sets up five radio buttons and groups them, then sets up pane for them to be in and if statements that create a reaction if activated. There are also two check boxes set up, given if else statements, that then initiate actions to change the text to bold and/or italics. Also before all the code it was necessary to have many "import javafx.*" labels to allow the buttons and boxes to work. There are methods to group the buttons and boxes and start an action.


```
start

fontBoldItalic: font
fontBold: font
fontItalic: font
fontNormal: font
text: Text
chkBold: CheckBox
chkItalic: CheckBox
paneForCheckBoxes: HBox
paneForRadioButtons: HBox
paneForText: Pane
rbRed: RadioButton
rbBlue: RadioButton
rbGreen: RadioButton
rbBlack: RadioButton
rbPurple: RadioButton

ToggleGroup();
BorderPane();
Pane();    setOnAction();
```

Requirements: The physical requirement of the system resources is for the user/system interaction to be done immediately without any lag and to accept user choice of buttons, displaying the new text.

Literature Survey: Similar systems out there that resemble my system would be something like Pages, Microsoft Word, Google Docs, etc. All of these are a step above mine though given the user enters text. So, technically what makes my app different is that it is more basic and has fewer features, but that could be fun for some users to test out for a short time!

User Manual: The user can use the text editor by accessing it through the terminal which will then open up a new window with the project. The code sets a stage and places the scene (my project) there. Then the user can use several radio buttons to choose a new color or return to the automatic black. There are also two check boxes that can be used together, separately, or not at all to italicize or bold the text.

Conclusion: This paper evaluated what my final project did and how. Essentially, I used Java to add radio buttons representative of different colors and check boxes representative of different text weights so the user can play around with it until a desired look is achieved. The text box comes up from the terminal and is put onto the stage which is accessed at the end of my code. The significance of the project is that it changed my original idea of photo editor which I knew how to do in JavaScript and allowed me to try doing something new using Java.