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CS 300

Project Summary

The now complete Task Manager Application, saw many stages of typical software unified approach and over all was successful. Understanding the requirements was the most straightforward stage, as the project description was clearly and continually posted online, and did not change. The design stage was also well understood and easy to execute because there was no unique domain and the requirements were already clear, so only some brainstorming was involved. However, the design did have me recall java architecture and also I performed research into the workings of JavaFX. As expected, implementation and testing had some troubles due in part to my unfamiliarity with some Java frameworks and libraries.

Generally, I adhered well to the project design. I made some omissions of features or functions which I had considered during the design. In the account manager, this included having a password confirmation text box, minimum password requirements, and encrypting password text. Though these three could be considered very useful, they were not a part of the requirements. My release criteria was not compromised.

Other changes developed as my knowledge of JavaFX increased. One considerable change was having each of my modules be represented as a JavaFX Box entity, rather than a scene. This proved much smoother based on the functionality of the JavaFX hierarchy.

I learned the JavaFX system mostly from scratch as I began to implement, but I noticed similarities to its predecessor, Swing, as well as Android programming. Getting started and getting used to interactions between the stage, scenes and other nodes was more time consuming than expected. I did not understand JavaFX well enough early to code in regards to Junit test cases. During development I tested heavily with the help of console prints to get my data structures and File I/O working properly.

Upon a satisfactory level of completion of implementation, I attempted to go back to test using the intended Junit framework. When I attempted to test the units of the Account Module, such as by registering a new user, or executing a login, I quickly found that these functions could not be tested without creating a module object, which itself involved running the entire application. I was ultimately not able run Junit tests from my test classes due to limited time of making my program more globally accessible, and knowledge of manipulating JavaFX elements in the testing contexts. In light of this, I did branch testing to the best of my ability. Though not ideal, I performed alternating patterns of

registering and attempting registering, and login until the account module worked as well as I could have it. Similarly for the Manager Module, I testing heaving with adding and removing, and saving and loading with task items in all positions, until I could produce no more bugs.

I am overall very satisfied with the completed status of the Task Manager Application and I may even use it one day to help keep my busy life in check