Security Manager

Final Report

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# Challenges

Briefly describe 2 major challenges you encountered during this project and how you responded to each challenge. (1-2 paragraphs)

For example:

* Did your build time-out in Jenkins and force you to find a more efficient solution?
* Did you set aside enough time to work on the project?
* Did you have trouble with file input/output?
* Did you have trouble writing JUnit test cases?

I sincerely worked on this project from the start of the given time and didn’t neglect it. But I ran into many small errors that held me up for so long and I didn’t prioritize more important things. For example, I was stuck for two days because I forgot to make a list inside of my Binary Tree static. None of my tests were helpful in finding the problem, so I basically only realized the issue after staring at the code and having an epiphany at 3am.

I spent too much time trying to create my own date object. The project suggested making our own if we had problems with the normal way of using dates. But I didn’t even try to use the normal dates and just created my own object, which quickly snowballed into a headache and wasted lots of time. I also made a lot of negligent mistakes trying to read in formatted strings and outputting formatting strings, I went about that in a very roundabout way.  
  
In the end it seems everything went wrong. I was negligent in reading the instruction more thoroughly which would have saved me a lot of trouble and a lot of basic coding mistakes that I shouldn’t be making anymore. I’m taking a fall on this project. (I’m relying on being more successful on projects 3 and 4, and this being the one with the halved grade.)

# Data Structures & Algorithms

Did you use the same data structures and/or algorithm(s) you selected in your proposal? Why or why not? (2-3 sentences)

My LogEntry objects were stored in a BinarySearchTree, just in my project proposal. I didn’t even get to working on the AttackTree.

# Improving Efficiency

Describe at least one way you could further improve the efficiency of your project software, based on topics we have discussed in class. (2-3 sentences)

I can’t really talk about discussing the efficiency of my project, as it doesn’t even work. I do know for the level-order traversal I was supposed to do, I needed to implement a queue. My only linear structure in the project was an array-based list, and it would have helped developing a queue if I implemented a LinkedList.

# Moving Forward

Briefly describe one thing you will change or improve upon as you work on the next project. (2-3 sentences)

~~I will literally not sleep for the entire week~~I will plan my project more before I start coding. The proposal always ends up being so abstracted from the actual requirements in the second part that I need to have a planning phase just for the second part. If I did this (and read the requirements more thoroughly), then I will be able to create a program in a faster way with better coding practices.