Rulon Briscoe

Federico Bermudez

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Module 4

1. Briefly describe the artifact. What is it? When was it created?

This is the same project that I used for milestone one, and I will be adding to it for the next

milestone. It is the inventory app project for the CS 360 mobile application course. It needed to

allow the user to keep track of all the inventory in their warehouse.

1. Justify the inclusion of the artifact in your ePortfolio. Why did you select this item? What specific components of the artifact showcase your skills and abilities in algorithms and data structure? How was the artifact improved?

I am including this artifact for the second milestone for the algorithms and data structure. I

selected this project because I was able to add several tables for the data structure using SQLite.

This was a great way to organize the username and password information. I was able to improve

the artifact by adding a table that allows the user to now create a username and password and

securely store it. Now when the user types in their credentials they are securely compared to the

information held in the tables to make sure the name and password match correctly. I also

created a table to hold the inventory name, ID, and price.

1. Did you meet the course objectives you planned to meet with this enhancement in Module One? Do you have any updates to your outcome-coverage plans?

This enhancement allowed me to focus on the course objectives of

* Design, develop, and deliver professional-quality oral, written, and visual communications that are coherent, technically sound, and appropriately adapted to specific audiences and contexts
* Design and evaluate computing solutions that solve a given problem using algorithmic principles and computer science practices and standards appropriate to its solution, while managing the trade-offs involved in design choices (data structures and algorithms)
* Demonstrate an ability to use well-founded and innovative techniques, skills, and tools in computing practices for the purpose of implementing computer solutions that deliver value and accomplish industry-specific goals (software engineering/design/database)
* Develop a security mindset that anticipates adversarial exploits in software architecture and designs to expose potential vulnerabilities, mitigate design flaws, and ensure privacy and enhanced security of data and resources

The third artifact will help me with the last outcome of

* Employ strategies for building collaborative environments that enable diverse audiences to support organizational decision making in the field of computer science

1. Reflect on the process of enhancing and modifying the artifact. What did you learn as you were creating it and improving it? What challenges did you face?

During this project I was able to learn more about SQLite and how to add tables to your projects.

I never thought to just use tables to store usernames and passwords as I never before understood

how secure they could be if done correctly. SQLite in general was a challenge for me. I spent a

lot of time watching videos because I am a very visual learner to teach myself SQLite.