Ryan DeJesus

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The artifact I have chosen for the portion of my ePortfolio is a mobile application that helps create and manage an inventory database for retail stores. I created this artifact when I took my CS-360 course for mobile architecture and design. The reason I chose this same artifact for this portion of my ePortfolio is due to its multiple functions that allow for easy management, modification, and access to the retailors complex inventory. Not only that but when looking at this application we see the organized storage of not only the inventory itself but also the usernames and passwords for employees access the data. Every step is covered from registering a user and password, to modifying the items inside the inventory database, as well as being informed when the stock is low. Going through this application I was able to improve security by removing redundant calls and simplifying quite a few if statements. Additionally, I enhanced the information given about stock quantities by not just informing the user when it was low but also telling them when stock reached above a “set” level in this case I set it so they would be informed if stock reached above 50 so they knew not to order more of that item. I also improved the SMS toggle by adding a pop up letting the user know if SMS notification permissions were granted or if they where denied.

When working to improve my application I planned on improving the SMS functionality and give the user more information on their inventory beyond if it was low. Not only was I able to improve the incomplete if else statements in the SMS code allowing for information that the user accepted or denied SMS notification, but they will now also know when stock is full in addition to being low. Going into these improvements with a security mindset I went through each class and addressed as many warnings as possible my IED informed me of. In many cases I had overly complex if statements that I was able to simplify, as well as removing redundant lines of code.

When making improvements to my code I thought back on how little I focused on the warnings of my code when my app wasn’t functioning properly, now that I had it working, I was able to take a fresh look at each class and see not only what worked but what I could improve. I Designed, Developed, and Delivered professional-quality oral, written, and visual communications that are coherent, technically sound, and appropriately adapted to specific audiences and contexts by completing the following enhancements: adding clear box comments to the top of each project file so future programmers can gain an easy understanding of what the code is, what it does, and why with easy comprehension. I Demonstrated 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 by completing the following enhancements using more complex if else loops to widen the functionality of the SMS authorization confirmation as well as applying the same complex loops to the inventory to give users more information about their inventory as items reach a set threshold.