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**CS-499**

**Prof. Bermudez**

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**Enhancement Three Narrative: Implement Prepopulated Data**

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

The artifact I have chosen to complete the Databases Enhancement is from the CS 360: Mobile Architecture and Programming course. Within Project Two of that course my goal was to create a mobile app through Android Studio. The application’s intention was to be a warehouse inventory application that could hold and display data for inventory within a warehouse or similar environment. The original file was created in August of 2024.

**To access the product:**

* Download Android Studio (latest version and any updates).
* Import the file folder into the software.
* Build and run the project.
* Add a ‘new device’ to view the project on and ensure it loads properly.
* At the login screen utilize the username: SNHUAdmin and password: SNHU123!

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 software development? How was the artifact improved?**

The course outcomes below that will be evident within this enhancement are options 1 (Employ strategies for building collaborative environments that enable diverse audiences to support organizational decision-making in the field of computer science) and 5 (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). This enhancement demonstrates the ability to design a collaborative, user-centered solution by providing users with the flexibility to modify and interact with preloaded data, aligning with the course outcome of building environments that support diverse needs. By allowing users to manage the data directly, the app encourages collaboration through customization, ensuring that it accommodates a variety of user preferences and use cases. Additionally, the process of securely parsing and storing data from external files, while ensuring it persists across sessions, reflects a security-minded approach. It anticipates potential vulnerabilities by focusing on secure data storage and handling practices, safeguarding user data and preventing unauthorized access to sensitive information.

***Noticeable improvements for enhancement*** – to display the preloaded data, now a user must access the settings and turn on or off the training mode feature.

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

I believe at this point I have met the course outcomes accordingly and have no additional outcome-related updates currently.

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?**

As I was adding the option to start the application with prepopulated data, I did not find any additional errors, as I had cleared up most of the errors I had had in the second enhancement. I learned more about UI structure regarding what fits best on the screen and how to structure the data in a visually pleasing way to aid in the most plausible use for this function – employee training.

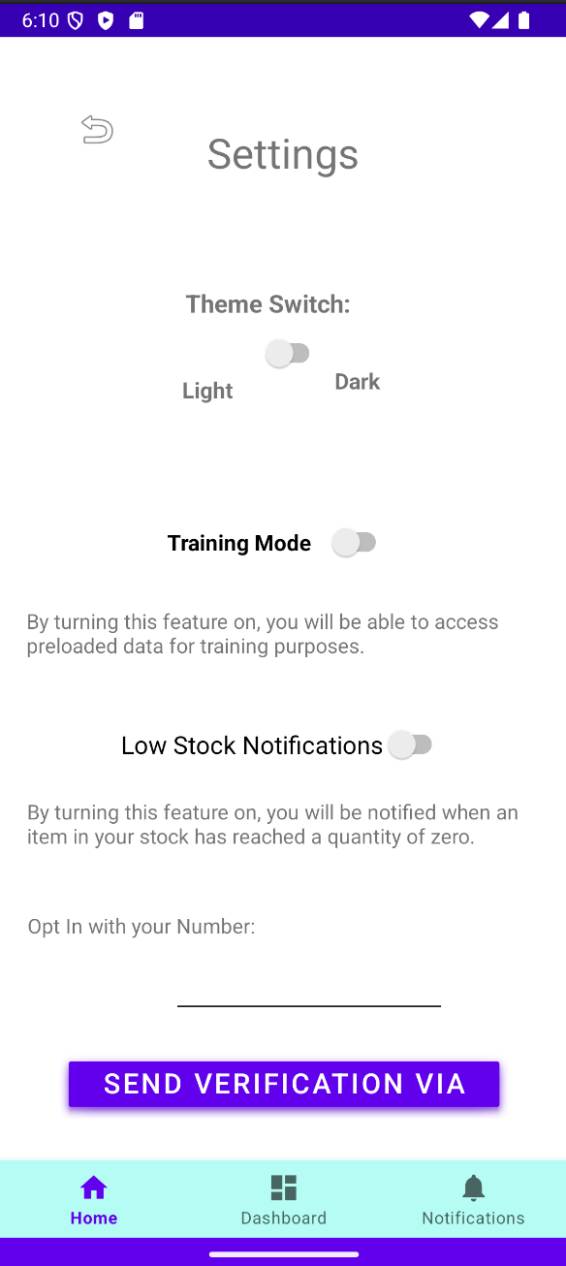
**Screenshots for proof of enhancement:**

Settings screen before and after implementing the training switch, code for training switch: A screenshot of a black screen

AI-generated content may be incorrect.A screenshot of a phone

AI-generated content may be incorrect.



Training Switch not being toggled therefore not previewing data:

Training Switch being toggled to preview data:

A screenshot of a phone

AI-generated content may be incorrect.

A white background with black dots

AI-generated content may be incorrect.As soon as the settings toggle is swapped back to ‘off’ we are redirected to the inventory screen to show the data has yet again been taken away, as we are no longer in training mode at this point. See time stamps in the upper right-hand corner (they are real time stamps in eastern time):