

CS-360-J7037 Mobile Architect & Programming
Module 2-3 Assignment: User Components and Data
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1. Articulate the goals of the project.

The mobile application I am going to work on is option one, which is the Inventory App. The application aims to track the list of items stocked in the Warehouse. The inventory app has some requirements that need to be followed. The application will require some feature that allows users to add and remove products from the warehouse inventory. App users should be able to ascertain whether an inventory count resulted in a loss or a gain. The user should be able to determine if an item increase or drop occurred due to the count and update their inventory accordingly. The application mechanism should enable users to track any missing or damage items in the warehouse. To finish this, I will create a grid layout with columns for the items and text fields for editing the count, with buttons to add, remove, or change the count. I do not have to overlook the app's security aspects while concentrating on creating efficient and helpful software. The inventory app will need excellent security features to safeguard the system and prevent unauthorized access and tampering with the item counts. This can be done by designing a user interface for logging that requires a username and password authentication, meaning that each user must register for an account and create a username and password before they can log in to the app. I will create two tables that will be used to hold the account information and to store the inventory count. To include a log-in page, use a table layout view group with multiple rows for the username and password, a text field for the password, and an icon to authenticate against the username and password databases in a separate column.

2. Compare the mobile app you selected to other successful apps of the same type.

The first application I have known that performs the same or similar function is the one I use at work to track the navy materials on our ship called IBS (Integrated Barcode System). This app is the same type as the one I have selected from the first option. The IBS tracks the count of all the Navy-owned repairable and consumable materials stocked in the ship's various storerooms. We use the app to keep the shelf-life date of the materials up to date, as well as track any loss or gain of the materials. Everyone who uses the app (IBS) has an account to log in, which helps provide better security for the system.

Similarly, the same features are required in the app I have selected to develop. Users must go to the home page to use the app and enter their username and password. The app can be used to scan a barcoded item, making the inventory process quick and efficient. That would be one of the aspects that may differ from the app I selected to develop. When a user forgets their password, the system admin can reset it for them using the same or different password.

The next inventory app I am familiar with is "RestockPro," a time-saving cloud-based inventory management tool for Amazon sellers to monitor shipments and inventories. You can manage suppliers, forecast sales, simplify operations, print personalized labels, make kits, and track inventory counts. In addition to doing daily inventory activities, it generates purchase orders, tracks shipments, and manages suppliers, which are kept in a cloud-based location. This makes it simple to keep track of every product's specific information and record anything from the local inventory location to manufacturer selections or preparation information.

3. Discuss potential users of the application.

There are several users of the inventory app, and three among them include Amazon warehouse managers, Defense Logistics Agency (DLA) Warehouse inventory managers within the United States Military, and Walmart inventory managers. Some of the needs the app would serve the user is that users of this inventory app can use it to track their materials in stock and reorder items that are out of stock. The inventory management app combines with other essential computer systems to enhance inventory control by following what's in stock over time and displaying its price, quantity, location, and movement (that is, change of location) within its warehouse. The app is easy to use as the user only needs to create a login account and use it to access the account whenever they want to conduct inventory. It is very convenient to use as it saves time and requires less effort to work with it.

References:

eComEngine, L. (n.d.). *Amazon FBA software for sellers - restockpro®*. Amazon FBA Software for Sellers - RestockPro®. <https://www.ecomengine.com/restockpro>

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