**Milestone: Goals and Users**

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The application that has been selected to begin work on for the Mobile2App company is the Inventory App. The overarching purpose of the inventory app is to track items in a warehouse. Users need to be able to log into the app, which will be done through a login screen. This screen will contain two text fields, one for the username and one for the user's password, where the user will be able to click into and type their username and password. On the same screen, there will be a login button that when pressed, will check the typed-in username and password against a database that contains all usernames and passwords for the application. If the typed-in username and password match an existing user’s credentials, the user will be authenticated and directed to the home screen. Also, on this screen, there will be an additional button, “Create New User”, that when pressed will create the new user with the typed-in username and password. Similarly to having a database that stores all of the application's usernames and passwords, there will be a second database that stores the warehouse’s inventory. It will include a list of each of the various items in inventory along with their quantity.

Once the user is authenticated, they are directed to the app’s home screen, where a list of all the items that are currently in the warehouse's inventory will be displayed in a grided type view. It will display each item on the left side of the screen and next to it, on the right side of the screen, the quantity of each item in inventory will be displayed. At the top of the screen, before the inventory is displayed, there will be a prominent button, “Add New Item”, that when pressed will take the user to a screen for adding a new item to the warehouse’s inventory.

Each item description will be clickable. If the user clicks on an item, they will be directed to another screen that displays the item’s name and current quantity in inventory. Below the item name, there will be a plus sign button that will increment the number of that item in inventory by one and a negative sign button that decreases the number of that item in inventory by a value of one. Below the plus or minus buttons, there will be a button with a trash can symbol on it that when pressed will completely remove the item from inventory.

Also on the main screen, at the top right corner, there will be a notifications button which can be identified by a bell symbol. If the user has a notification, a red dot will appear next to the bell. If no red dot is displayed, no notifications exist for the user. If the user clicks on the notifications button, they will be directed to a notifications screen, which will display to the user any items in inventory that have been reduced to zero.

Two other mobile applications that are available in the Google Play Store for managing inventory are Sortly, and Stock and Inventory Simple. Both apps aim to provide a means of keeping track of items in a particular inventory. Both apps have similar features for helping users manage inventory by providing lists of inventory with details for each item in inventory, pictures of each item along with a description, the quantity of that item in inventory, and information pertaining to the value of the items in inventory. Both applications also provide a method for adding and removing items, tracking the history of the quantity of each item in inventory, and adjusting the inventory levels for each item in inventory.

Potential users of the application and the needs they might have that my app would serve include stakeholders such as the business owner(s) who would be interested in knowing how much inventory his/her company has and how much money is tied up in inventory. Another user would be the ordering manager for the warehouse who would need to know how much of each item the warehouse has available and when they might need to order more of a particular item. Another potential user would be a warehouse worker who needs to know if an item is in stock. If the warehouse is large, it would be beneficial for an employee to know this information before attempting to retrieve an item from inventory.

A user might decide engaging with this app is the right choice for them because they realize the benefits of utilizing the app. Having this type of inventory control system helps reduce errors that can occur in inventory management such as having too much of an item in stock. The application will provide essential information to various types of users that will help them manage the business productively and help reduce the costs of improper inventory management. This app is specifically designed for warehouse inventory management. Therefore, the app fits in a user’s lifestyle by helping them complete various work activities more productively. This can also help reduce stress in the workplace as the application helps reduce the workload of managing the warehouse’s inventory. While some users may not engage with the application the entire time they are working, users will likely spend any length of time using the app that is required of them to help them achieve their work goals/activities.

**References**

Chester Software (Xaltos Technologies Ltd). (2023). *Stock and Inventory Simple* [Mobile App].

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