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**2-3 Project One Milestone**

I'll be working with Option 1, which is the Inventory App. The goal of this application is to track things in a warehouse. A method that allows users to add and remove items from the warehouse inventory, increase or decrease the count of any given item, and track when an item has been reduced to zero within the application are all necessary for Apple to achieve this. A GridLayout might be used for this, with text fields to change the count and columns to store the item. It might also have buttons to add, remove, or change the item's count. A username and password authentication system must also be used to secure the application and stop unwanted manipulation of item counts. In order to add a log-in page, a TableLayout viewgroup with several TableRows for the username and password, text fields for entering the password and userid in a separate column, and a button that authenticates against the databases for the password and userid upon onClick() are all included.

The Inventory Management mobile application from Zure Technologies (Pty) Ltd is the first program I came across that does a comparable function. Just like Option 1, this software lets users keep track of stock and inform them of its availability. The ability to track and scan barcodes, which I assume is done using the \uses-feature android:name="android.hardware.camera" in the AndroidManifest.xml, is where I believe it differs and offers advantages.   
However, this app has an autolog-in feature that can be problematic if a device is lost or stolen. It also lets users submit their username and password, which are then validated against a database via a login button.

Another comparable application is Industrial IT's Inventory Management, which facilitates stock tracking through a grid pattern for in and out, move, additional information, and item insertion and removal. I think this program shines since it shows the complete stock of everything in a pie chart style. People adore pie charts. I also didn't see a way to log in or out, which makes it hard to safeguard this program or monitor who is editing it.

The program might be used by three distinct people: a warehouse manager to keep track of their inventory, a personal assistant to maintain track of their employer's kitchen or wardrobe supplies, and an office manager to keep track of available supplies. The application's log-in feature and portability would help the warehouse manager quickly monitor their inventory while on the go. Lastly, the office manager would benefit from knowing what needs to be ordered when stock is running low and being alerted to keep business from stopping when stock drops to zero. The personal assistant would benefit from having an on-hand stock that they could check when quickly planning their clients' days.

Reference:

“Zure Application:

<https://play.google.com/store/apps/details?id=com.zure.stockzure>  
the Inventory Management by Industrial IT:

https://play.google.com/store/apps/details?id=nl.industrialit.warehousemanagement”.