Inventory+ App Launch Plan

David Smith

Department of Computer Science, Southern New Hampshire University

CS 360: Mobile Architecture and Programming

Professor Jerome DiMarzio

December 12, 2021

For this app’s app store description, I would use “Inventory+ is an app designed to help its users maintain accurate information about items available in a warehouse and how many of them there are. The app is designed to make it easy to update on hand counts, add new items, and edit and remove existing items. Though this app was designed for warehouse use, it can also be used for other situations where keeping count of items available is important, including stores, restaurants, laboratories, and personal use.”

I have already chosen an icon type for the app, but I was unable to get it to load correctly into Android Studio. The icon would be similar to this:



I would like to have the + as a superscript so that it doesn’t look like a t. I would also like to include a representation of a list under the plus sign after making it a superscript, maybe like the one in the add item activity layout. I chose the colors based on the color theme used in the app.

The app is designed to work on Android API 28 or newer. This means that it will work on devices that use Android 9.0 (Pie) or newer. I tried setting up a Pixel 5 and Pixel 4 with Android 12 to attempt to run Inventory+, but was unable to get the emulators to start. I managed to get a Pixel 4 running with the 32-bit version of Android. The app worked as expected in this emulator. The only difference I noticed between it and one with a lower Android version was that the messaging app did not show the outgoing message but did show it incoming. I was able to receive the incoming message as I sent it to the same emulator from which I sent it.

Inventory+ is designed to send an SMS message to the currently logged in user when inventory on hand count reaches zero for an item. Therefore, the app asks the user to allow it to send SMS messages. If the user does not allow the app to send the SMS messages, the app will still work without that functionality. No other permissions are required or requested by Inventory+.

Inventory+ would benefit from an advertisement-based monetization. I could add a third adapter to the ConcatAdapter holding the two RecyclerViews to enable displaying the ads in the bottom of the ConcatAdapter’s view. This would allow using the app as currently designed while occasionally adding an advertisement at the bottom of the screen in an adapter that can be hidden to reclaim the space for viewing items. The ConcatAdapter’s view can be truncated horizontally in landscape mode to allow space for advertisements. A pay once to remove ads option would also be a viable way to monetize the app, though it would not make as much money.