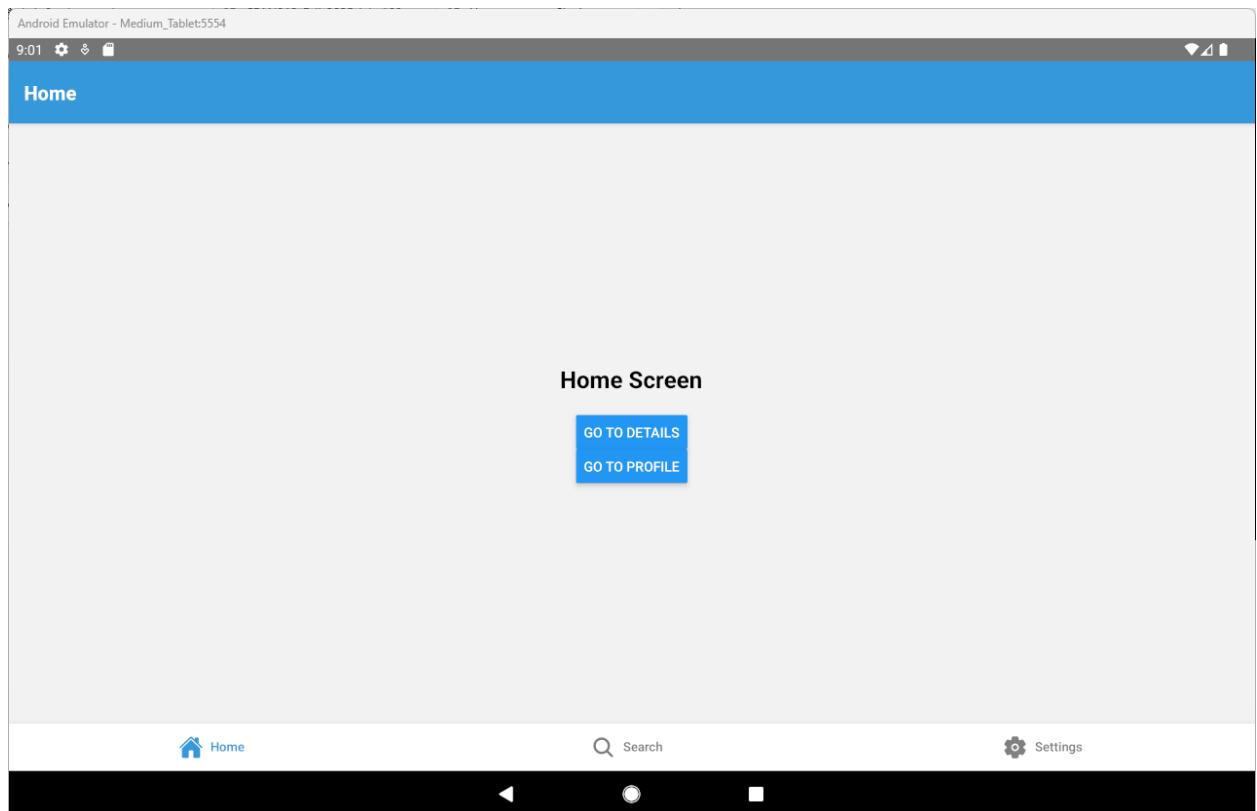
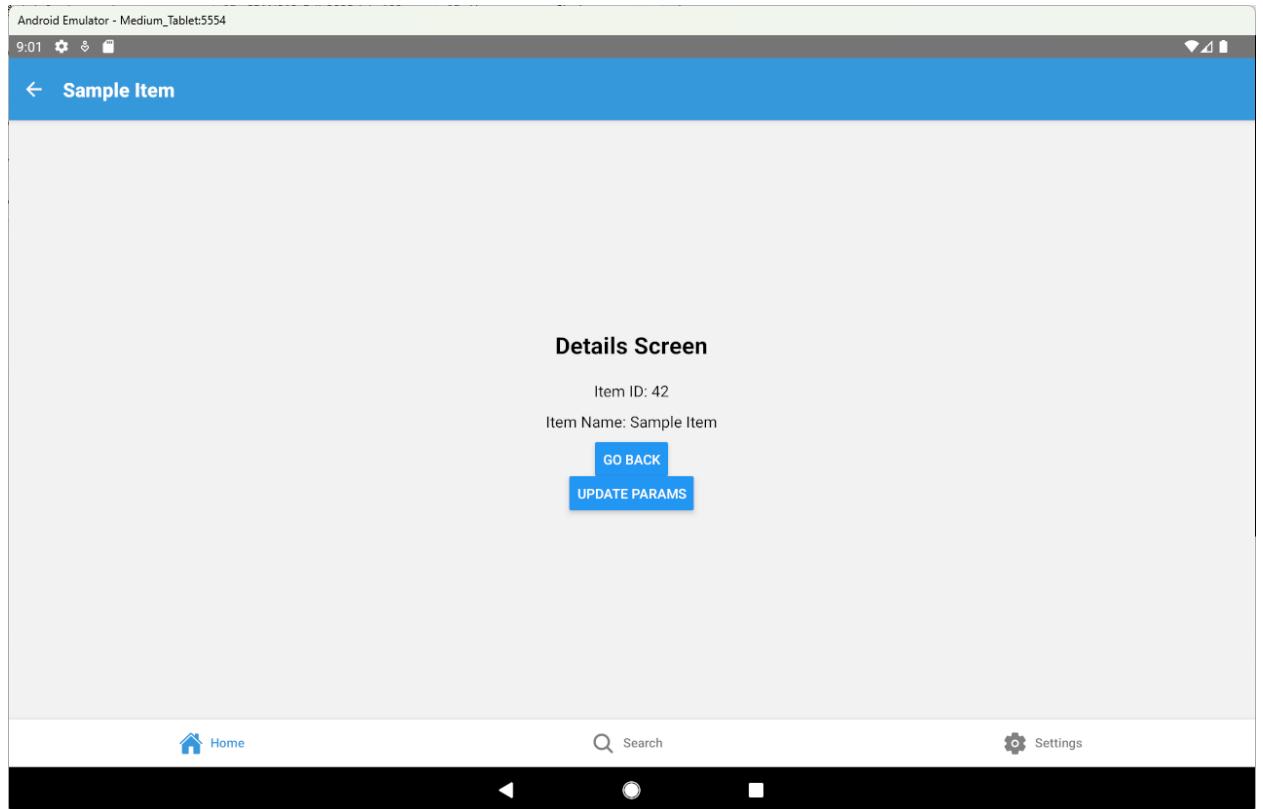


**Home screen** – Stack navigator visible (Home default, bottom tabs visible).



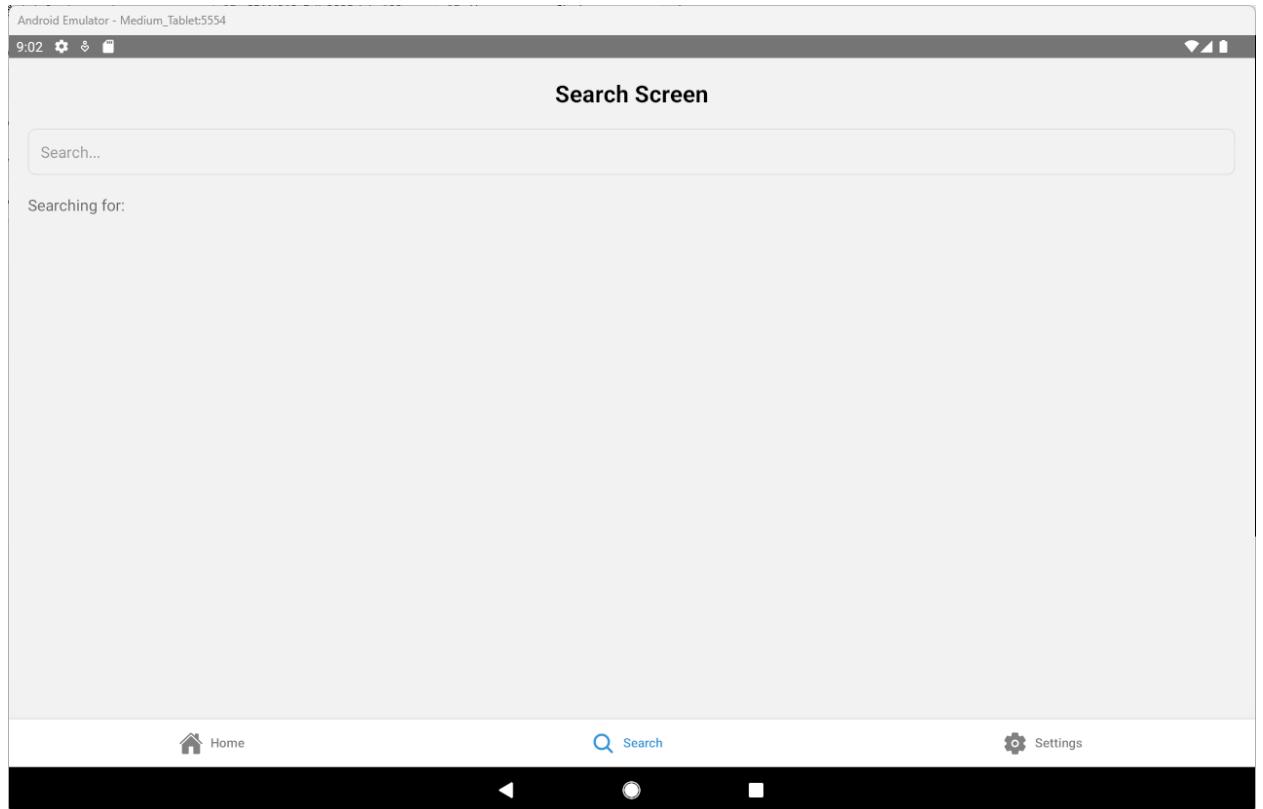
**Details screen** – showing itemId and itemName.



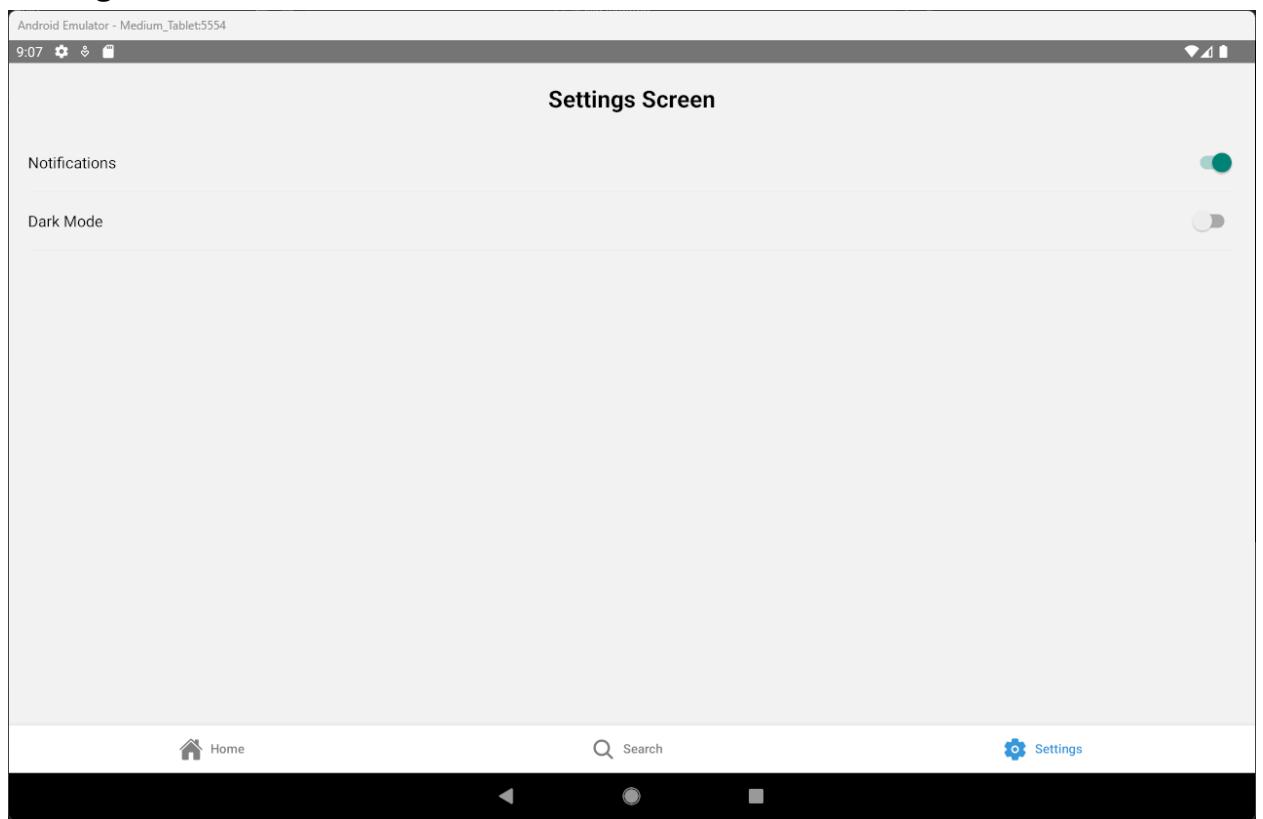
**Tab bar** – all 3 tabs visible with icons (any screen is fine, but bottom bar must be clear).

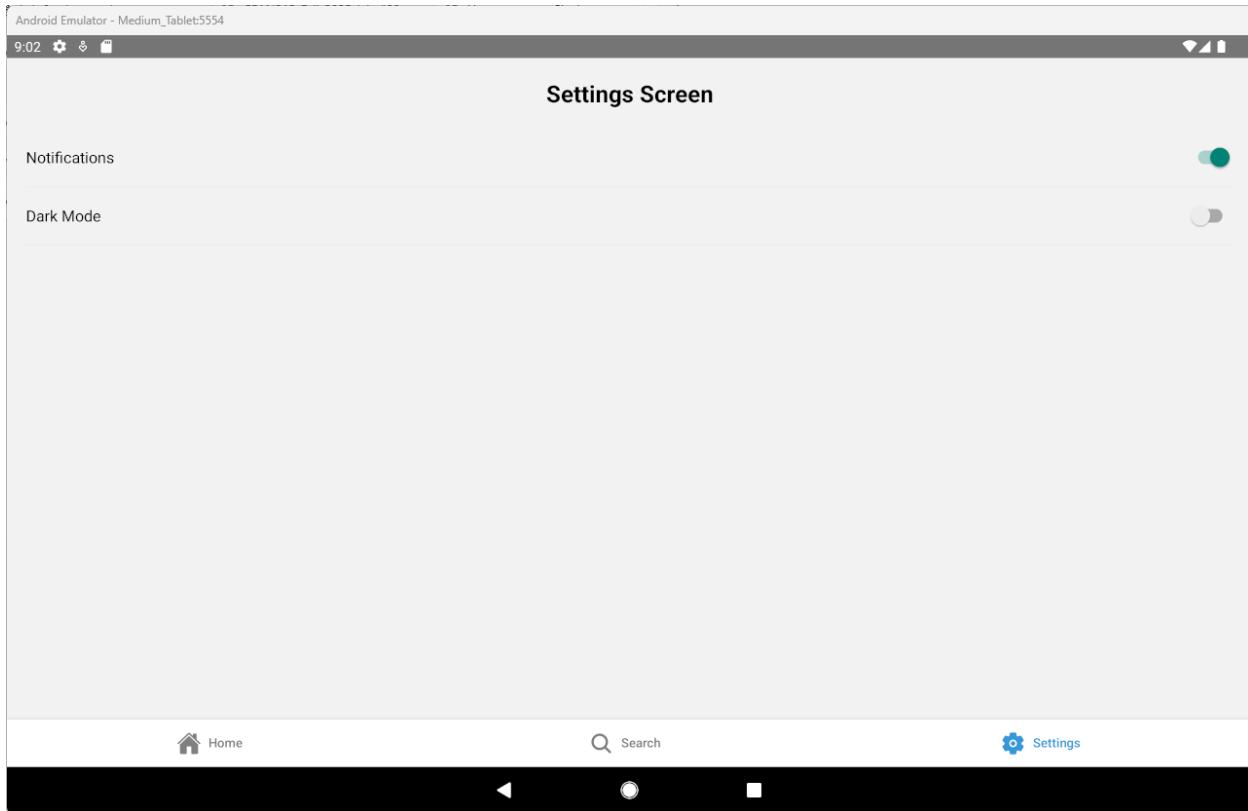


**Search screen** – second tab active (Search tab highlighted).



**Settings screen – third tab active, both switches visible.**





## B. Navigation Implementation

I set up the app by putting everything inside a single `NavigationContainer`, then using a bottom `TabNavigator` as the main layout. The `Home` tab contains a full `StackNavigator`, and the other tabs open simple screens for `Search` and `Settings`. In this stack, I added `Home`, `Details`, and `Profile`. I gave the stack a blue header with white text so all screens look consistent. There are three tabs on the tab bar, with icons taken from Ionicons. I've set it so that the active tab turns blue and the rest are gray, which helps with instantly knowing where you are. Passing params is done by calling `navigation.navigate('Details', { itemId, itemName })` in `Home`, then in the `Details` screen, I've added a button that calls `navigation.setParams`-so I can update the item name on the fly.

## C. Challenges and Learning

I ran into a few problems while building the navigation. Metro bundler gave me the red screen at first, so I learned to run Metro in one terminal and the Android build in another. The biggest issue was that the tab icons were not appearing-they showed as boxes with X

in midle. I figured out the vector-icons font wasn't linked with Android. Adding the fonts script to build.gradle and cleaning the project finally got the icons to show.

#### D. Testing and Verification

First, I tested the stack by going from Home → Details → Profile and back, making sure that the header, titles, and back button all acted accordingly. I also made sure the parameters showed properly on the Details screen and that pressing "Update Params" actually changed the header. Then, I tabbed between the three tabs to make sure icons, labels, and active colors were working. Search and Settings opened normally, and both of the switches on Settings responded.