



Shopping Helper App

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PROJECT INFORMATION

The aim of this project is to have an application that acts as a shopping tool that will allow the user to easily scan products from their phones with the help of the camera feature in their device. This will overcome the need to write on paper, therefore making tasks easier for the users and letting them shop with ease. The user can input the product they want manually to their shopping list through the 'write shopping list feature' or scan the product code into it.

The user can also edit their list within the application if they make errors upon scanning products. I am trying to achieve this while programming from scratch with the use of Android Studio. With regards to the platform, I have decided to use the Android operating system for my project rather than IOS or Windows due to the flexibility that it offers.

The Progress I have made with the app, as of submitting this poster assignment, is that I have managed to get a menu (UI) for my application.



TECHNICAL INFORMATION

The issues that I have had with this project are mostly software related as the patches were not working properly or the APKs were missing. There were also some technical issues when trying to load the application onto the virtual machine or through my phone.

As mentioned previously, I am using Android Studio to run my project. Below is a screen shot of where I am in the completion of my application. Following this image, a brief description will be provided regarding the progress of the application.



The figure above shows how much work has been completed with this user interface. The user can choose from the three options available.

They can either manually input information with the 'write shopping list', or they can input information with the help of the camera of the phone using the 'scan products' button.

Finally, they can click the 'guide' button, which will assist the user on how to navigate through the application by following a few simple steps.

REMAINING AND FUTURE WORK

The remaining work I plan on completing is regarding the 'edit basket' within the 'write shopping list' page as well as making sure the scanner is properly connected to the application.

In addition to this, I will be making sure that everything is running smoothly and insure that users are able to edit information such as the products they selected by removing them or changing the order. Furthermore a save state will be made so that you can continue where you left off even after closing the application and then re-opening it.

With regards to future work, I also plan to develop a notification reminder that will allow the application to notify the user that they haven't been using the app and to remind them to come back to it.

I also plan to make a way to allow the user to scan and register discounts as wells as special bargain deals, as that is what I have seen to be popular on most shopping helper applications.

In retrospect, my main focus throughout the project is to make sure that the user can scan products through the scanner with the help of the camera on your smartphone, as well as manually add onto a list. That will be the most challenging aspect within this project as I am not yet fully accustomed to using Android Studio as well as programming in Java.

REFERENCES

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