

CS 5551
Advanced Software Engineering

Price Matcher

Team 14

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Goals and Objectives

Motivation

While shopping each of us want to get best deals and save money. A lot of stores offer price match, if we could find an evidence that product is cheaper somewhere else the Seller does not want to lose clients and wants to be competitor. It is convenient for us, clients, who does not want to drive to other place to get the product if it is already available in the store where we are currently at. For some bigger purchases we will not mind to do a research, get best deal and save money. We had a lot of cases when we had to return to the store and ask for price match since after purchasing something we found out that item that we bought cost less somewhere else, which is inconvenient for us since we have to drive to the store second time. We want to create an Android application which will help us to save big not only money but our time as well.

Significance

Every person wants to save money but does not want to give up on their needs to shop for particular product. if application will help us very easily to save money and get best deals none of will say no to that application. We know that significant amount of money spent for shopping, if there is a way to save people could spend saved money for education, travelling on any other important needs. usually we try to do a research on a price if we are making bigger purchase, imagine if we could do it for each item that we are buying. Even if it will help us to save couple dollars for each item it will add up to good amount of saved money.

Objectives

We are planning to create an Android application which will read barcode and output product info and best prices immediately. User can select best price

and add that item to shopping list so when checking out he will not need to search for each item again in order to ask for price match. We will try to expand it by retrieving more information from the product and we might offer better product from same category which has better price and better reviews. Implementations of our ideas will depend on resource availability. Our application will have login page and will store selected items to database so user can keep track of items he purchased or was planning to purchase. Our application will have easy to use UI which will make it user friendly.

System Features

In order to implement our application we will need to work on Android Studio and use different APIs which will help us to determine best offers for the product. We will be testing our application on real device with real products.

Related Work

1. Amazon application which will output products only sold by amazon.
2. Walmart application performs scanning of the receipt after making all purchases to compare prices.
3. Slickdeals shows items which are marked as a best value by users.

References:

1. <https://www.pcmag.com/feature/290959/the-best-shopping-apps-to-compare-prices/5>
2. <https://developers.google.com/vision/android/barcodes-overview>
3. <https://code.tutsplus.com/tutorials/android-sdk-create-a-barcode-reader--mobile-17162>