

Price Sharing Android Application

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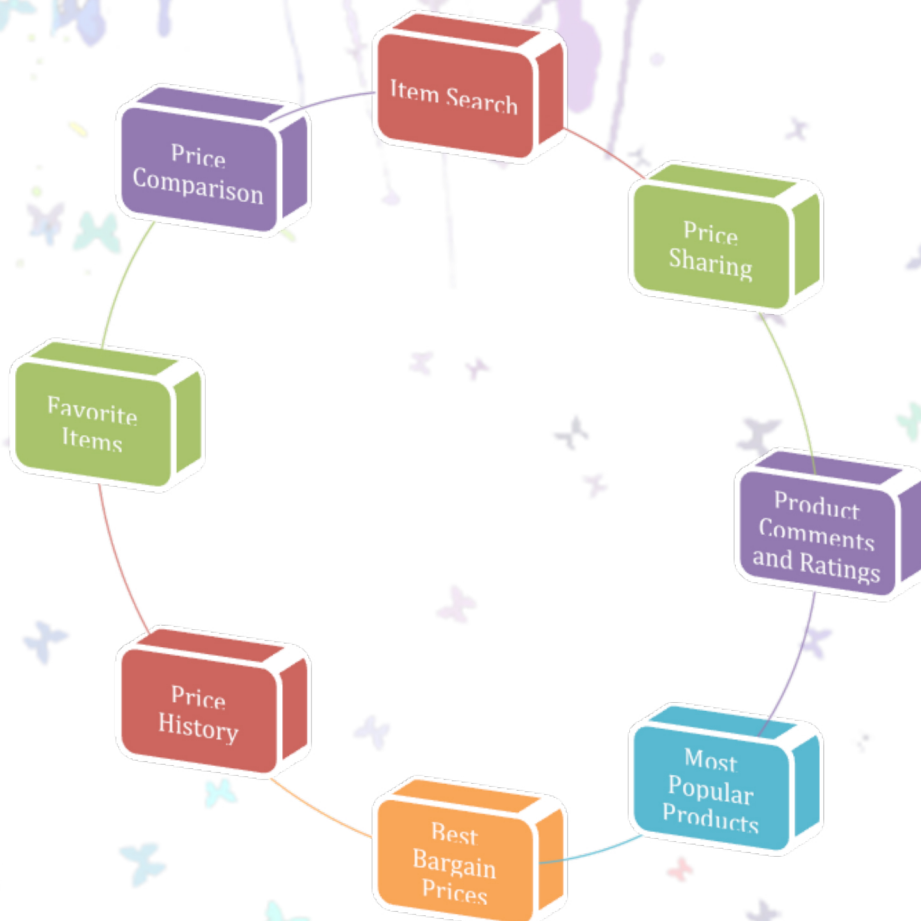
Advised by Prof. Qian ZHANG

INTRODUCTION

The technological innovation of price sharing helps shoppers quickly figure out the best deals online and increases their enjoyment in both physical and psychological ways. Yet, it was found that there are not many interactive price sharing apps on the Play Store market enable users to share the prices of the goods they have bought and to view the price history of certain products while they are shopping.

In view of that, our group developed a barcode-scanning application for comparison shopping and finding product information using an android mobile device, while the website version is executable across all popular platforms, enabling users to use this tool anytime and anywhere.

OBJECTIVES



SYSTEM ARCHITECTURE



FIGURE 1. SYSTEM ARCHITECTURE FLOW CHART

USER INTERFACE

We designed a user interface that is user-friendly and that makes it easy for users to search for products, display product details and view charts showing each product's historic price fluctuations, location(s) of the store associated with each price.

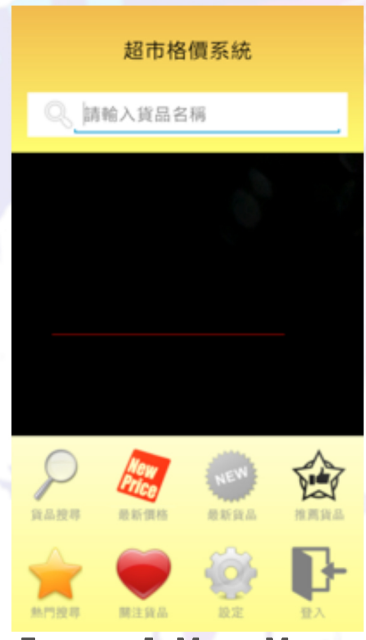


FIGURE 4. MAIN MENU

THE MAIN MENU OF THE APPLICATION, CAMERA CAN PERFORM AS A BARCODE SCANNER OR USER CAN SEARCH THE ITEM BY INPUT THE NAME OF THE PRODUCT.

USER VERIFICATION

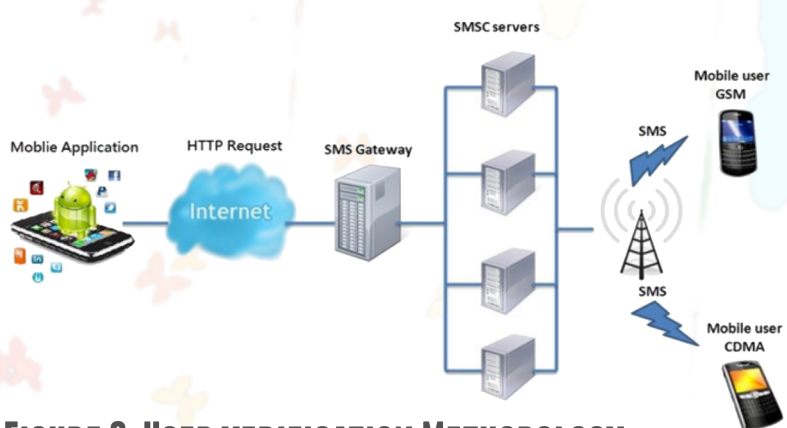
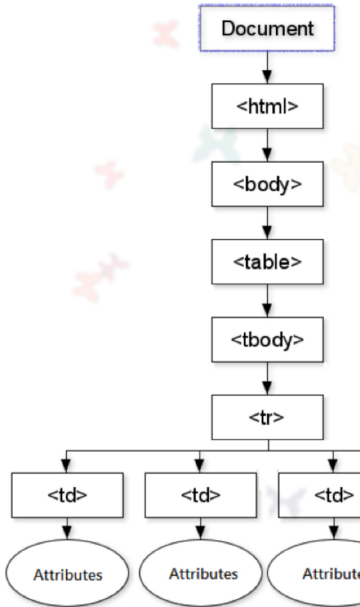


FIGURE 2. USER VERIFICATION METHODOLOGY

DATA GRABBER



Apart from using crowdsourcing techniques, we found a good data set for supermarket prices from the Consumer Council. We grabbed this data to build our database and we have command to gain it daily to keep the database up-to-date.

FIGURE 3. DATA GRABBER MODEL

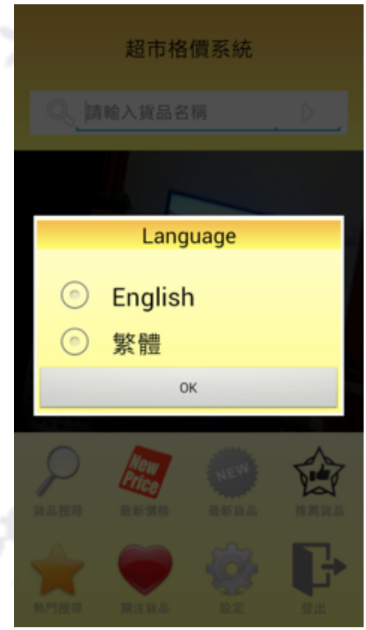


FIGURE 5. LANGUAGE SETTING PAGE

LANGUAGE SETTING PAGE, WHERE USERS CAN SELECT THE LANGUAGE OF THE APPLICATION.

TESTING

After we finished all the testing, we evaluated the system to check whether or not it fulfills all our objectives.

The stability of all the functions of the mobile application was also evaluated, and we tried to see if the app is flexible in different situations.

For example, the user should be able to check his/her information, like the searching history, even when his/her device is not connected to the Internet. We also evaluated the control of information security to minimize the possibility that users receive false information.

CONCLUSIONS

In this project we have developed a unique Android app that facilitate Hong Kong consumers' shopping experiences.

We hope that this price sharing application can be deployed as a business-to-customers social networking platform in the future.

USER INTERFACE



FIGURE 6. PRODUCT DETAIL PAGE

IT SHOWS THE ITEM DETAILS WITH MARKET PRICES OFFERED IN DIFFERENT SUPERMARKETS AND ALLOWS THE LOGIN USER TO BOOKMARK THIS ITEM.



FIGURE 7. MAP DATA

IT SHOWS THE LOCATION OF THE SUPERMARKET WHERE THE PRODUCT IS AVAILABLE AND THE LOCATION OF THE USER.