

Price Sharing Android App

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Abstract

As there are not many price sharing mobile applications on the market in Hong Kong, this project developed a convenient Android price sharing mobile application which allows consumers to find out the cheapest prices of supermarket products before they go shopping.

In order to provide the most updated and reliable product price, this application collects the price data from the supermarket websites and users. A web crawler is developed to grab the daily price data from different supermarket websites. Besides, users can update the product price manually.

Some features like favourite list and product barcode searching, which allows users to search the desired product through scanning the product barcode, are installed to provide a better shopping experience for consumers. With this application, consumers can purchase in a smart and easeful way.

Methodology

Design

- Daily necessities prices database
- Barcode Scanning
- Search product price
- Add product price



• Shopping cart

Product search results	Product Categories
Ψ Α	약 ♠ 중
= 🛐 Product	KIT KAT 4 FINGER CHOCOLATE
Baby Care	456 KITKAT KITKAT 456 Finger DARK CHOCOLATE
Bakery	ANFULLYSGOOTOGO GO% DARK CHOCOLATE BAR 456
Beer. Wines. Spirits	T2 DARK CHOCOLATE
	85 DARK CHOCOLATE
Beverage	AFTER EIGHT THIN CHOCOLATE MINTS
Biscuits	AMELIA MOND CHOCOLATE
Chilled Feed	
Chilled Food	ALMOND CHOCOLATE BAR
Confectionerv	ALMOND CHOCOLATE CRISP
plementation	

• We developed a web crawler to grasp the daily product prices from supermarket website. The daily product prices will then be sent to our database for updating purpose. We used PHP to develop a web interface between server and client.





 \checkmark Database

Page 1: Finished Page 2: Finished Page 3: Finished Page 4: Finished

Deleted: 0 Price(s). Stop updating products

User acceptance

Start updating products Inserted: 150 Price(s). Updated: 0 Price(s Inserted: 604 Price(s). Updated: 0 Price(s Inserted: 97 Price(s). Updated: 0 Price(s)

Inserted: 797 Price(s). Updated: 0 Price(s). Inserted: 797 Price(s). Updated: 0 Price(s) Inserted: 170 Price(s). Updated: 0 Price(s) Inserted: 430 Price(s). Updated: 0 Price(s) Inserted: 637 Price(s). Updated: 0 Price(s)

Inserted: 2038 Price(s). Updated: 0 Price(s Inserted: 336 Price(s). Updated: 0 Price(s)

Inserted: 163 Price(s). Updated: 0 Price(

Updated: 0 Price(s)

Testing

We had done some testing on our database and user acceptance on our app. For the database test, the product price grasping form supermarket is smooth and successful. As for user acceptance testing, the result shows that most of the users tend to feel reliable and satisfactory on our application.

Conclusion

In this project, we designed and developed a user-friendly Hong Kong supermarket price sharing Android mobile application. This application could help consumers finding the cheapest price of products and provide a more convenient shopping experience for consumers. We have done some test on our app and the test results can fulfill our objectives.