

Review on E-Retail Android Application

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ABSTRACT

The Internet technology is creating huge opportunities to expand existing businesses and forming what is called New Economy, Global Economy or Electronic-Commerce (E-Commerce). E-retail is one of them which describes most advance & affordable Android Based Mobile App Solution which automates customers ordering process without involving manual intervention. E-retail app makes use of the internet, GPS (Global Positioning System) and the digital network computing environment that links retailers and individuals in application. E-retail is designed for comparison between nearby vendors and prices of product. Buyers can benefit a great deal before or while making their purchases also view the latest prices offered by various retailers. With the development of several mobile apps, it has changed the behaviour of consumers and their expectations. As more people are relying on these mobile apps to help them find a convenient solution for their problem which they are facing in order to revolutionize business processes with the power of mobile apps.

Keyword: *Business, Consumers, E-retail, Retailers.*

1. Literature Survey

Uden, L. Velderas, P. and Pastor [1]- "An activity-based model to analyse Web application requirements". This paper proposes the online grocery shopping has not been accepted fully by public or by users as other types of online purchasing like clothes, electronic items, books, etc. In general, 50% of users were not able to finish their online grocery shopping. The user finds it difficult to communicate with customer care of online store.

Yi-Jing Wu and Wei-Guang Teng [2]- "An Enhanced Recommendation Scheme for Online Grocery Shopping". This paper proposes product replenishment and product promotion. To enhance the estimation of a consumer's individual interest in the work, this scheme divide consumer online purchasing behaviours into different three steps of "viewing the product information" "adding product to shopping basket" and "purchasing product" This scheme should be able to provide a more appropriate recommendation list which fit consumer needs, desires and budget considerations.

Mark Freeman and Alison Freeman [3]- "Online Grocery System Design through Task Analysis". Through this paper the author analysis that the customer was able to locate the products that are required. But this system had navigation issues. The first issue was locating the items and screen functions. The second issue was locating the products from the database.

M. Hemalatha, J. Betty Sagaya Shanthi, M. Saraswathi[4]- "Online Shopping using Tagging". In this paper, the author proposed that instead of people walking to the several shops to find their required things, they can only purchase using a single click. A new approach has been introduced where the searching of materials could be made in an easy way.

In view of this, the purpose of our E-retail android based application is that, if the users want to buy any grocery item or any product then the user can easily get to know the compared price of total grocery list from the nearby shops.

2. Introduction

Grocery shopping is one of the most important and necessary works of every family. However, as the life pace becomes faster and faster, people are less likely to spend time and energy on buying grocery from shop. In the development of e-commerce, people are now able to fulfil this work through online shopping. Moreover, people can use not only computers, laptops but also various types of handy devices, e.g., PDAs, smart phones and tablets, to surf websites so as to do their shopping easily. As a result, shopping groceries online becomes more and more popular. Under such circumstance, how to make online purchasing quick, fast and efficient becomes an issue in e-commerce [5].

Groceries are different from many other types of products such as books, clothes, electronic items which are commonly purchased from online store. The decision to purchase groceries online occurs after consumers evaluate the benefits and costs of his need. Using E-retail customers will have a profitable deal in his hands consuming less amount of time. The service aspect of E-retail is a major attraction for consumers. The appeal of E-retail services is also influenced by many consumers finding grocery shopping a stressful activity. Online grocery services meet a number of consumer need including providing products for niche markets or helping the time starved consumer shop for the mundane weekly groceries.

The aim of our project is to develop Android Based Mobile Application called as E-Retail app. This E-retail application is to reduce an effort which has done manually by the user. This can reduce time and effort. The objective is that if a user wants to buy any grocery then can easily get to know its price and can compare between two grocery stores. Buyers can benefit a great deal before or while making their purchases and can view the latest prices offered by various retailers. It includes two modules retailer and customer. All the details of the products will be saved on Private cloud.

3. Proposed System

The application has two modules, Customer and Retailer.

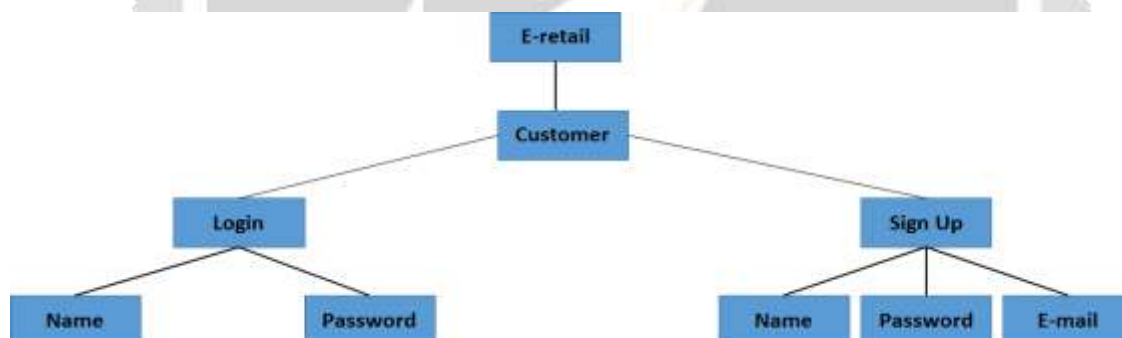


Fig. 1. ER Diagram of E-Retail App, the Customer Module

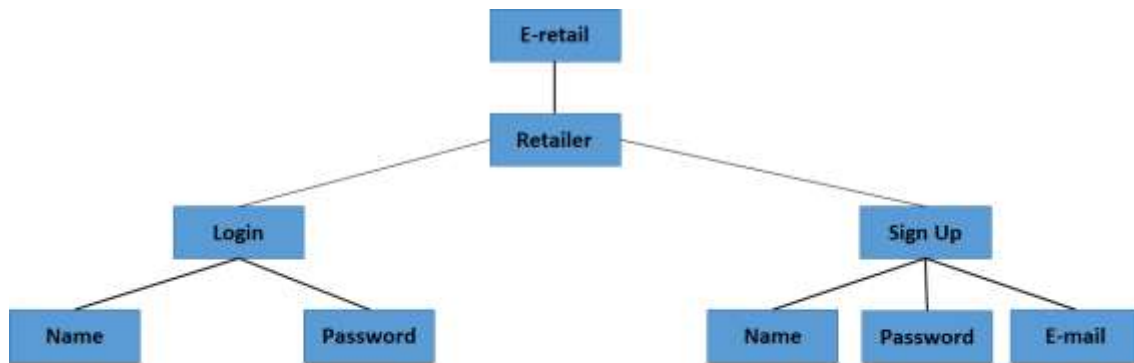


Fig. 2. ER Diagram of E-Retail App, the Retailer Module

Fig.1 shows the ER diagram of E-Retail app, the Customer Module and Fig.2 shows the ER diagram of E-Retail app, The Retailer Module.

If the user is new to the app then the user has to sign up. If the user has already signed up, then the user can directly login.

a) Login: Login allows the user to visit the application. The user can login only if they have done signup process. This includes the unique id's such as e-mail address or mobile number which works as username.

b) Signup: The signup form asks for the require information of the user. Once the signup is done, the user is successfully registered. This includes Name, e-mail, password. If the user is facing any kind of problem in login, then there will be the option that will be able to reset their password using their e-mail address.



Fig.3 ER diagram of the role of customer included in the app

Fig.3 shows the ER diagram of the role of customer. The customer will be able to search products only if they have registered on application. The dashboard contains the customer profile which includes name, my orders, wish-list, logout. The search bar will show the products and their availability with respect to their shops.

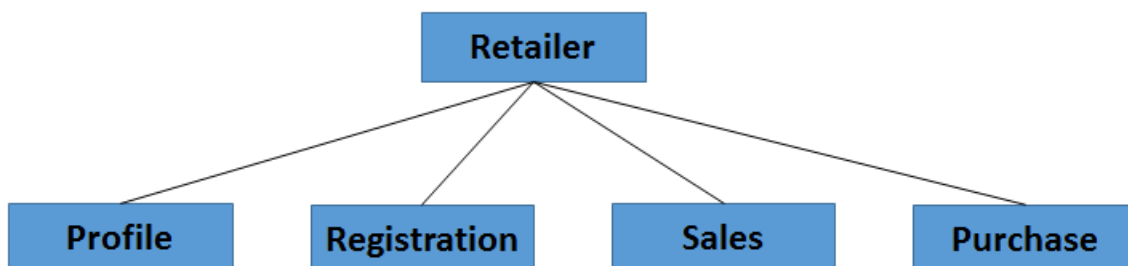


Fig.4 ER diagram of the role of retailer included in the app

Fig.4 shows the ER diagram of the role of Retailer. The retailer owns his identity with respect to his address that plays as unique id. The retailer will be able to register the shop on Google using google API. The sales and purchase bar will show the availability of products in the shop.

4. **Advantages**

- Easy to use. Time saving.
- Registration of grocery shops on Google.
- The customers will be able to search for the products from anywhere and can see offers on products.
- They will be able to create their grocery list online through this app.
- This application will allow customers to buy products of their budget.
- The customers will be able to send message and also submit their feedback to the shopkeeper

5. **Future Scope**

This app can be created as a multi-purpose app like for medical stores, clothing, electronics equipment, etc. Also rating of the shops and reviews can be included in the app.

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