A Study of Retailer and Supplier Operation in business with Implementation of Smartphone application useful for Customer, Retailer and Supplier

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Abstract: **In this application there are three main aspects Administrator, Customer, Retailer. In this application customer and retailer has to create there new account to get access to this application. Here the administrator plays the vital role as he is the manufacturer of the product (CHIKKI).He supplies the product to the customer and retailer. On the other side of application after the customer creates his account he can buy the product from the retailer or supplier directly. The customer or retailer can buy the product in the packets. The retailer has to create a new account to access the application. In the application the customer is the one who is a stranger who is going to login for the first time and the retailer is the one who is the daily customer for the Administrator After the account is created the retailer will get the separate UI (User Interface) from which he can take the stock of product from supplier and sell it to the customer separately.**

*Keywords***: Application, Administrator, Customer, Retailer, Product, UI (user Interface).**

I Introduction

Smart phones are the portable computers to provide all needs of consumers in faster and efficient ways. The applications plays the main roles in the smartphones, applications are the small pieces of software that's can do almost everything. And it comes with various operating systems like Android, iOS, blackberry, etc. In this field there is lot of competition and it is very hard to survive without using technologies. To achieve success in this field hard work and creative mind is needed. This application aims to engage the customers with suppliers directly as well as it also provides efficiency to customer to choose where to buy the product as per their premises. The application is the common platform for the supplier, retailer and customer. As a customer buying products from supplier it will be less expensive for customer rather than buying the same product from the market, and it will be beneficial for supplier and retailer due to the increasing customer base through the application. If a customer is not able to buy product from the supplier it have the option to choose the retailer from his nearby location, the same product will be delivered to the customer with the cheap price then outside market. New Order is the main feature of the customer side application that will be used to make orders.

II Literature Review

New Order is the main feature of the customer side application that will be used to make orders. Nowadays, mobile phone is not used for calling or SMS only, many mobile phones also provide application that support people daily activities [1]. Administrator can add and modify food categories. Administrator can add, modify and query food information. Administrator can manage orders produced from the web application and Android application. Customer can view food information, such as category, name, price, image, description and so on. Customer can order food [2]. "The Java Persistence API, sometimes referred to as JPA, is a Java programming language application programming interface specification which describes the management of relational data in application using Java Platform, Standard edition and Java Platform, Enterprise Edition." Persistence in this context covers three areas:

1. The API itself, defines in the javax.persistence package

2. The Java Persistence Query Language (JPQL)

3. Object/relational metadata [3]

The source code for Android is available under free and open-source software licenses. It means that the device manufactures, wireless carriers and enthusiast developers can freely modify and distribute the software. Most Android devices ship with a combination of open source and proprietary [4].
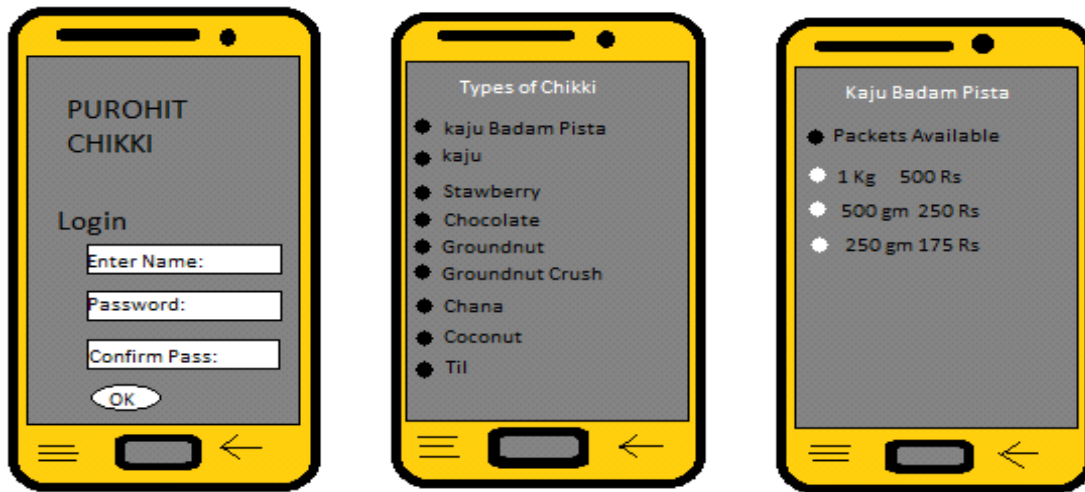
III. Working Architecture

Fig. 1.0: User Interface

When the customer or retailer will open the application they will get a login page, then the customer or retailer can login or sign up. After the customer login to the application he/she can see the page which is types of chikki, so the customer or retailer can select any type of chikki, after selecting the chikki, he/she will get an another page which will be including the packets available with price, there will be three packets (1 kg, 500 gm & 250 gm).After selecting the product they will get the payment options like (Paytm, Debit Card or Cash On Delivery).
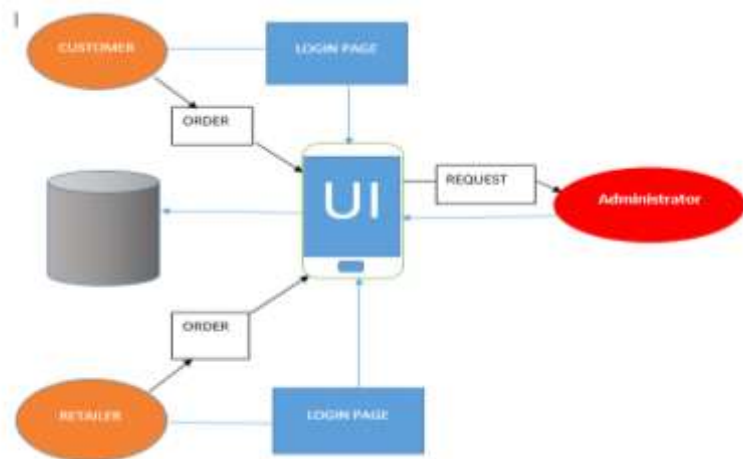

Fig. 1.1: Data Flow Diagram

IV Advantages

- This application is more beneficial to the supplier as there will be tremendous increase in his sale.
- Customer will get good products in cheap price.
- It will increase customer base business.
- It will help the customer to order product from anywhere.
- Customer can directly communicate with the Supplier using the application itself.

V Conclusion

In current situation the supplier is not able to reach to the customers due to the locality of a business. It is isolated on a particular location and not able to supply product to outside market or to reach multiple customer from different locations. This application holds together Supplier, Retailer as well as customer. So the customer are able to buy the products directly through supplier or retailer with the help of our application as well as it will help to expand the business.

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