Online Distributor System Using Android OS

Prof. Sunil Jadhav, MR. Musale Ameya
Dept of Computer Engineering Yadavrao Tasgaonkar institute of Engineering & Technology
sunil.jadhav@tasgaonkartech.com, ameya_musale@yahoo.in
.

Abstract--The transactions related to purchase, sales and returns are maintained online at present along with maintaining the accounts of the company and distributor. The main objective of this project to provide the secure communication between company and distributor. The distributor can contact with the company manager .Company manager can add their product on sites and distributor and company manager get notify about all the operation perform.

_____*****_____

1. Introduction

The rapid adoption of Smart phone's has created a unique opportunity for mobile shopping services for mobile users. There's no other software quite like Android. Android is Linux based operating system. This application has many uses like notification, company manager adds any new product then this application gives the notification to distributor. This application also provides online banking and a live chatting.

2. Objective

The main objective of this project to provide the secure communication between company and distributor. The distributor can contact with the company manager .Company manager can add their product on their site. And distributor and company manager get notification about all the operations performed.

The application is used to automate the existing system of manually maintaining the records of the counter sales, purchases, reorder levels, Supplier and Customer monetary positions and other related transactions made at the counter. Using this application company manager can add their product and their prize and offers on product. When distributor will login he can see product added by company, he can buy the product .His bill will be created and he will get notification about it. Company manager can get notification too. This application also provide online banking and distributor can do live chat with company manager if he want. This project also shows the delivery date and it can track the delivery vehicle using GPS. If any new product is added by the company then it will show it to the distributor. We are doing this using Android Operating System.

3. Problem statement

The transactions related to purchase, sale and returns are maintained manually at present along with maintaining the accounts of the company and the distributor .All these are to be automated and an application is required to relate all of them relatively and logically so that the current system can be replaced and accepted without major changes and problems. The application should also provide quick access to the records maintained and must reveal the important reviews about the business so that the growth can be easily compared and should provide with the various reports showing the related details so that the important decisions could be taken easily. In the starting of this project we realize that there are number of online shopping sites which are available where people can buy the product online at any time. But there are no such applications using that company can add their product and distributor can buy that product and get notification about product and can also generate bill of that product and also know the location of vehicle which delivering their product. In our project we solve this using Android operating system. Because of different screen size of mobile there are some limitations, at the end of this project we make it possible and easy to achieve the online trading and use GPS to know the vehicle location.

4. Literarure Survey

There are number of online shopping sites is available for the mobile so that people can buy the product online at any time. But there is no such a application for distributor so that they can takes their orders on mobile and communicate with the company manager at any time. Distributor can't know the new arrival in market. Optimization work of distributor by using software system is essential. Actually to maintain business data in well manner and to access that through efficient ways is important. Trivial method of maintaining business data is by manual. It goes become complicated at certain level. By taking under consideration important of task it devolves software for distributor. But there is also no such a application for distributor so that they can take the online distribution ship from company and also a company can provide distribution ship to any person. Distributor can't take their orders using mobile and company also can't do their distribution for particular region. Distributor and company don't have online communication facilities on mobile. This is done well in this application.

5. Scope

Scope of our project is, it can handle all type of company's transactions which include purchase/sale strategy and maintain records as per distributor requirements. It also helpful for creating bill sheets and maintain history of customer, items etc.

6. Timeline

Software Engineering is an establishment of sound engineering principles in order to obtain economical software i.e. reliable and works efficiently on real machine. We have used classic life cycle paradigm also called "Water Fall Model". For

_____

software engineering which is sequential approach to software development that begins at the system level and progress through Analysis, Design, Coding, Testing and Maintenance.
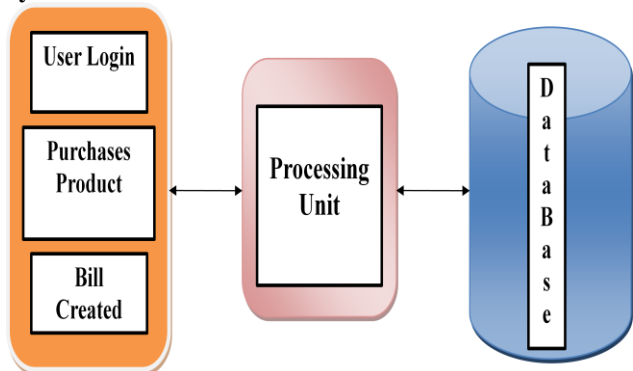
7. System Architecture

Fig. 1 Architecture of the system

Here in this architecture, system consists of 3 phases: registration phase, login phase and verification phase. During registration, distributor registers with his new ID and PASSWORD. First the registration process is done. Then after that the Distributor can login in to the application and will verify the company and its products added by the company, and then he can buy the product as per his convience. After purchasing the products his bill will be created. And all the information will be stored in the database.
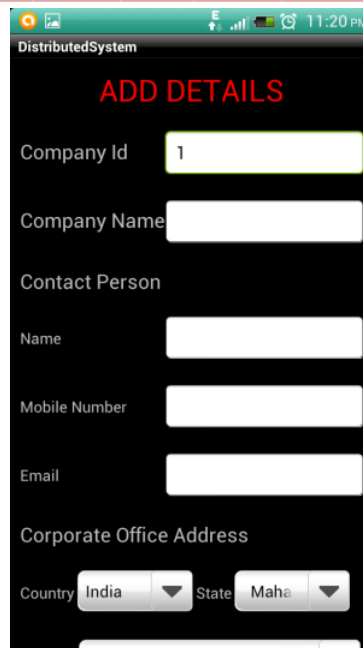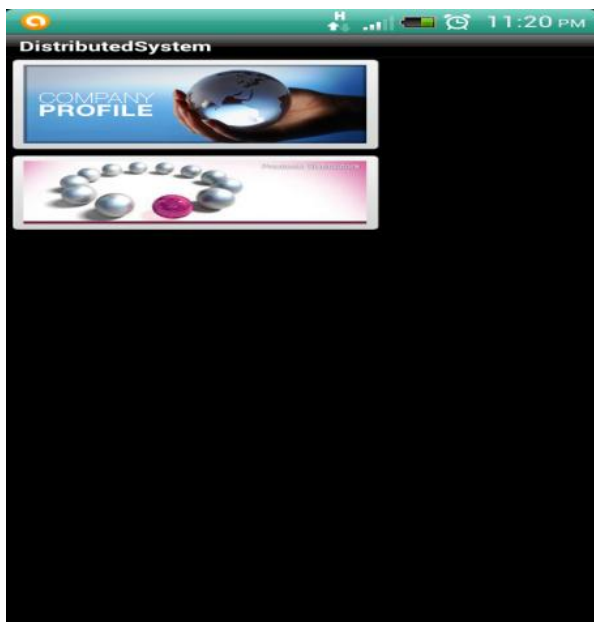
8. Screenshots
i. Home Screen

Fig. 2 Home Screen

In this fig, the home screen consists of two options first is Company profile and second is Distributor profile. The Company and Distributor both can register their accounts.
ii. Sign Up Screen

Fig. 3 Sign Up Screen

Here in this fig 3, the user can register their own accounts and can use that account for further transactions.
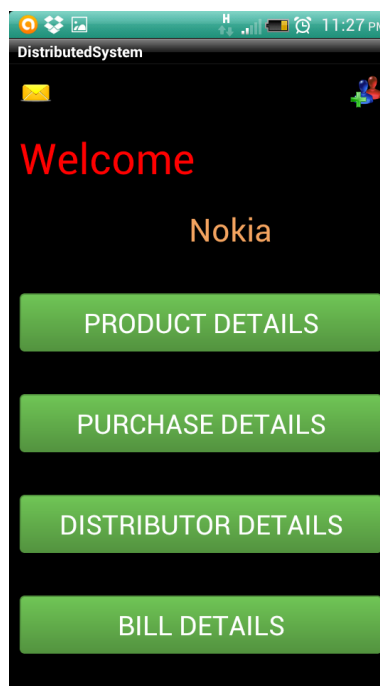
iii. Company profile home screen

Fig. 4 Company profile home screen

Here the company can add the details of the product, purchase details, distributor details, bill details. The company manager can also send request to the distributor and also send message to the distributor. The products are also added by the company manager and those products can be seen by the distributor.
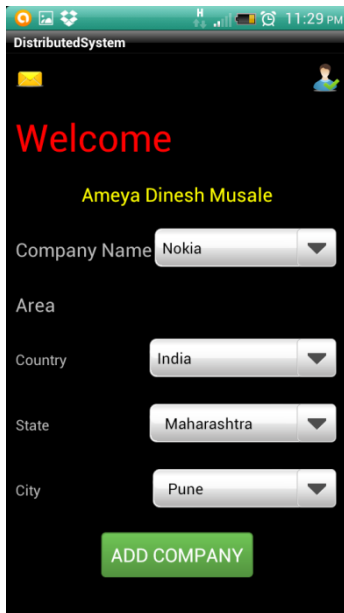
_____

_____

iv. Distributor home screen

Fig. 4 Distributor home screen

Here the distributor can see the companies linked with him and see the products added by the company. He can also add the company to its own profile.
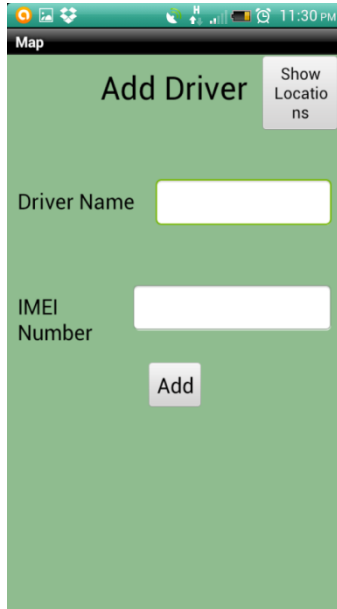
v. Driver details screen

Fig. 5 Driver Details screen

Here the company adds the details of the driver who is delivering the product to the distributor. And the distributor can see the location of the vehicle through the map.

vi. Driver location screen

Fig. 6 Driver location screen

Here the location can seen with help of the Latitude and Longitude in the map. And all this done with the help of the IMEI Number.

9. Future Scope

In future the system can be made more secured with the help of the biometrics such as retina scan, fingerprint scan, face detection, etc.
Also the users can sign up their accounts through Facebook.
Also facility to carry whole business from one location to another location would be added. Also the barcode scanning system is to be added.

10. Advantages

- To keep accounts of purchase and sales
- Bill generation
- Stock maintenance
- Send the notification to company any distributor
- Live chatting
- Online banking
- GPS to track the location of vehicle.

11. Hardware Requirement

These are the minimum hardware requirements.

Hard disk   : 80 GB.

RAM   : 512 MB.

Processor   : Intel Pentium4 or above.

_____

_____

12. Technology Used

Technologies used for this project are as follows.

Android Operating System
Java 1.5 and above
Eclipse IDE
NetBeans IDE 7.2

13. Conclusion

Finally I conclude that I have successfully completed project report on ONLINE DISTRIBUTOR SYSTEM USING ANDROID OS. As this application helps any company to reduce manual work and develop an generic software.

References:

[1] **Android development SDK**
http://developer.android.com.

[2] **Android Development Tutorial**
http://www.vogella.com/articles/Android/article.html#android

[3] **Introduction to android**
http://www.android.com/about/

_____