

“NATUROMART” – Android Application for Information about Organic Products

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Abstract - Natural products are anything which is produced by a living organism or occurring readily in our environment for use with minimalistic human intervention. These products are gaining enormous importance and attention from chemists and pharmacologists to discover biological substances of human importance. These products can be used in various disciplines like medicine, food, fuel, and other household purposes. As no additional chemical processing is needed for these products, they reduce other collateral damages occurring due to use of harmful chemicals. The aim of this project is to develop an android application which will provide the users with availability of required organic products and the dealers in their neighborhood. There will be login provided for dealer as admin. The dealer or vendor will register with the application and its facilities using admin login and post his advertisement of respective commodity. On the other hand, user or consumer will have access to all the advertisements posted by the vendors and the information regarding their product and its availability.

Key Words: Android Application, Organic products, Advertisement, Product information, PHP & MYSQL.

1. INTRODUCTION

Natural products are chemical compound or substance produced by living organism. They include any substance produced by life. The term natural product has also been extended for commercial purposes to refer to cosmetics, dietary supplements, and foods produced from natural sources without added artificial ingredients. It can be produced naturally, total synthesis or semi-synthesis process which plays a vital role in the medicinal chemistry which deliver tricky targets throughout drug discovery process. It has been prolonged for commercial purposes for cosmetics, dietary supplements and foods created from natural resources. Natural products are the origin of the most complex and absorbing chemical structures and it represents natural biological activity, whether as individual compounds or as complex mixtures. Natural Products covers the fields of Herbal Medicine, Organic Chemistry and Pharmaceutical Science. Natural products are not just coincidences or products of suitability of nature. Beyond probably they are a natural expression of the growth in complexity of organisms.

To provide users with information of availability of organic products in nearby locality. The aim of this project is to develop an android application which will provide its users with availability of required organic products and their dealers in their neighbourhood. There will be login provided for the dealer as admin. The dealer or vendor will register and subscribe to our application and its facilities using admin login and post his advertisement of respective commodity. On the other hand, user or consumer will have access to all the advertisements posted by the vendors and the information regarding their product and its availability.

2. EXISTING SYSTEM

In existing system there was application as **Agro-Post** made for farmers where they can individually post information about the products and the customers can chat with them regarding the prices or they can connect through a phone call. **Market-Yard** is also a similar application where an individual can post the information about their products and can contact with customers through a phone call. The problem with existing system is that none of them provide information about organic products or have a special category specifically devoted to organic or natural products and hence the customers or users remain unaware about these products which might prove to be healthier and safe as compared to the synthetically grown products. Also, there is no farmer involved while determining the cost of this products. All the bargaining is done by retailer and the agents/mediator. This current system is not beneficial for both the farmer and the customer. Farmers will not get the expected profit and customer will not purchase the product at the given high rates. Hence this chain is not feasible and requires some radicle changes.

3. PROPOSED WORK

3.1 MOTIVATION AND OBJECTIVE

It is evident that lots of people are suffering from medical problems caused due to non-organic products. These non-organic medicines or products provide momentary relief but have long term harmful effects on an individual's health. On the other hand, organic products don't cause any side effects or harm whatsoever to the human body as they are naturally occurring substances made with very less or no processing at all. We are developing an app for patients to get organic

natural products so that the health problems can be cleared as early as possible. It will also prove beneficial to farmers who specifically grow such organic products. As the mobile communication technology is developing rapidly, we can use this in favor of people who have very less or no idea about utilizing this resource for their benefit. We are providing an android application “NATUROMART” where customers can get organic products, their information and availability status.

The objective of undertaking this project was purely from social point of view. Today, lots of natural or hand-made products are being manufactured in a city itself but the common population residing in the city itself is not aware about such things. Hence, we are developing an application which can help in increasing sales of natural products available in the city itself. If more and more farmers turn towards cultivating organic crops, we can automatically reduce the use of pesticides. Moreover, the young farmers who are trying their career in agriculture can get employment.

3.2 PROPOSED SYSTEM

The main aim of “NATUROMART” is to provide information and availability of natural and organic products to the user. The proposed system is designed with an objective that it should be user friendly and smooth. It should provide details of all kinds of natural products and their availability. It should also provide detailed address of the shop where the product can be purchased so that the user need not ask any third party about the location.

This application has two portals for customer and retailer each. Retailer needs to register himself with the application and verify himself with his/her email. Customer does not need to register and can directly access the products panel. Once the retailer is registered, he/she is given the right to upload all the necessary information about the product. The app also has facility to upload a short video describing the product or the process involved in growing and packing the product. The app should also provide availability status of each and every product in every store registered with the app. This needs to be updated by the vendor systematically on his own. The application can be operated in English and Marathi for now. We can add other regional languages in the future to make it easier to use for rural public.

4. SYSTEM ARCHITECTURE

System architecture is the conceptual model that defines the structure, behavior and more views of a system. An architecture description is a formal description and representation of a system, organized in a way that supports reasoning about the structures and behaviors of the system.

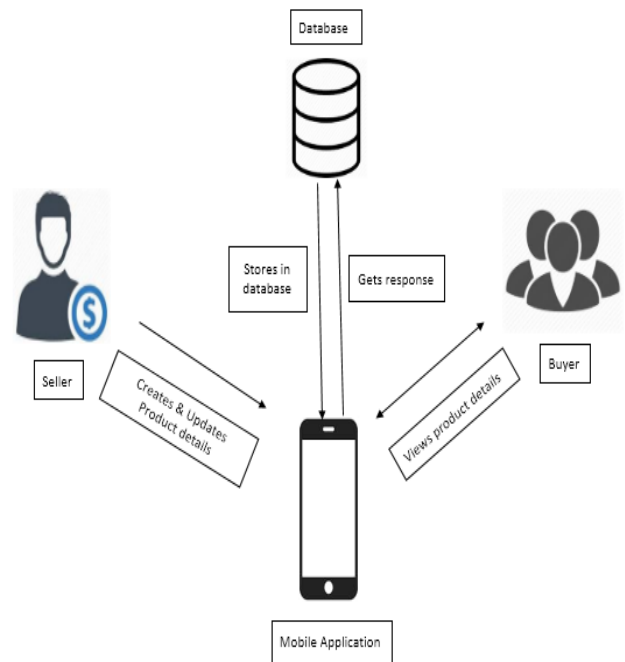


Fig. 1 System Architecture

5. IMPLEMENTATION

An Implementation is a realization of a technical specification or algorithm as a program, software component, or other computer system through computer programming and deployment. Implementation is the carrying out, execution, or practice of a plan, a method, or any design for doing something. As such, implementation is the action that must follow any preliminary thinking in order for something to actually happen. In an information technology context, implementation encompasses all the processes involved in getting new software or hardware operating properly in its environment, including installation, configuration, running, testing, and making necessary changes. The word deployment is sometimes used to mean the same thing.

6. MODULE DESCRIPTION

- **Registration Module:** The registration module takes information from the users. This information is stored at the server site. Also a login Id and password is generated after registration.
- **Login Module:** The login module takes input as login id and password from the user. These credentials are then sent to the server side for authentication. If the login details provided are correct, then the user is directed to next page, else an error message is shown. Also there is button for new registration below in this module.
- **Profile Module:** The profile module consists of information about the retailer. The information

includes Owner-name, email, contact number, password, Shop-name, address of the vendor.

- **Add Product Module:** This module enables user to add products in his product list. This module is only available for the retailer who has store registered with the app. This module includes name, description, price, status, quantity, contact, image of the product.
- **Update Product Module:** The update product module lets the vendor make changes to existing product in the list. This includes description, price, status, quantity available for changes.
- **Delete Product Module:** This module lets the user to delete any product on the list. The vendor need to enter the correct name of the product. If the name is correct, all information regarding that product is deleted permanently from the list.
- **Logout Module:** When the logout button is clicked in the profile, the user is returned back to the login page.

7. USE CASE REALIZATION

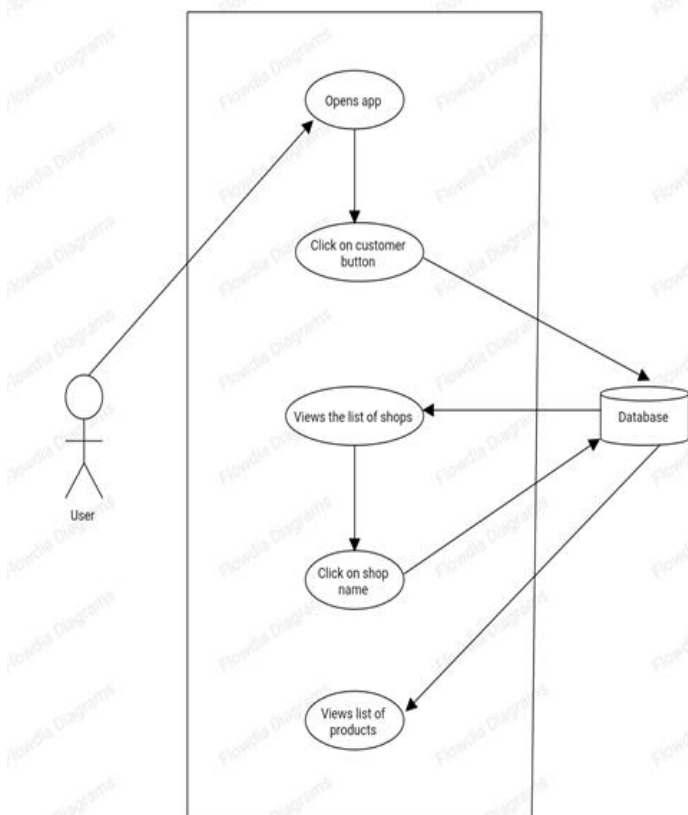


Fig. 2- Use case diagram- Customer

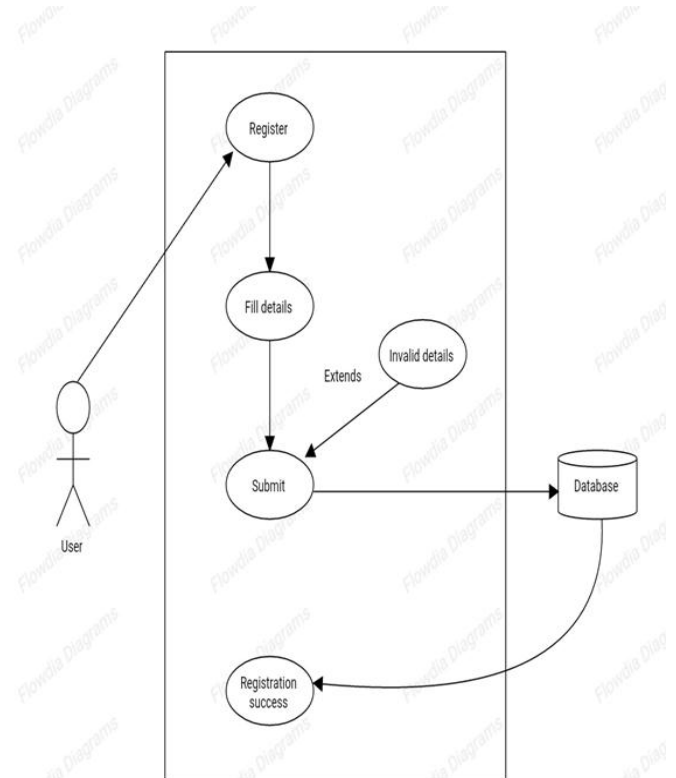


Fig. 3-Use case Diagram- Registration

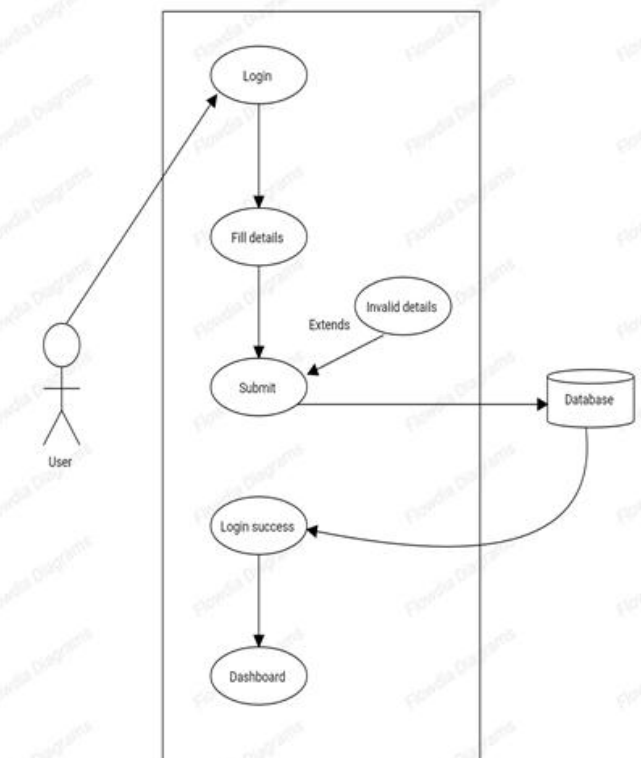


Fig. 4-Use case Diagram-Login

8. RESULTS

When the app is launched by a user and he/she selects to use it as customer,

- A list of products is displayed on the screen.
- Each product has its description and/or a informational video about the product.
- Price of each product with respect to its weight or quantity is provided.
- Complete address of the shop where the products are available is provided.
- Contact number of the vendor is also provided if the vendor has given it.

9. WORKING PHOTOS

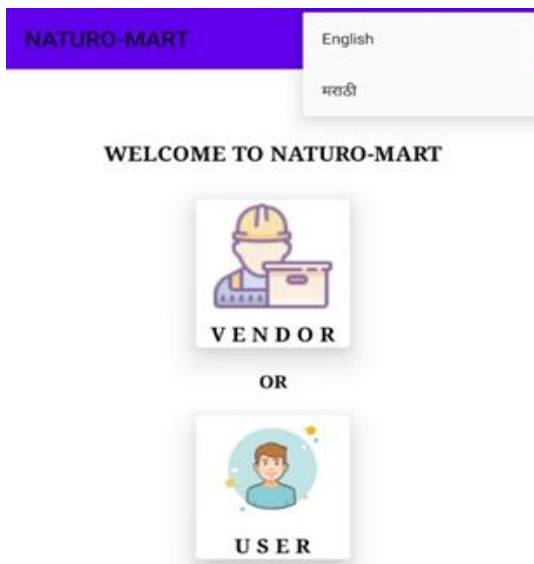


Fig. 5- Home Screen

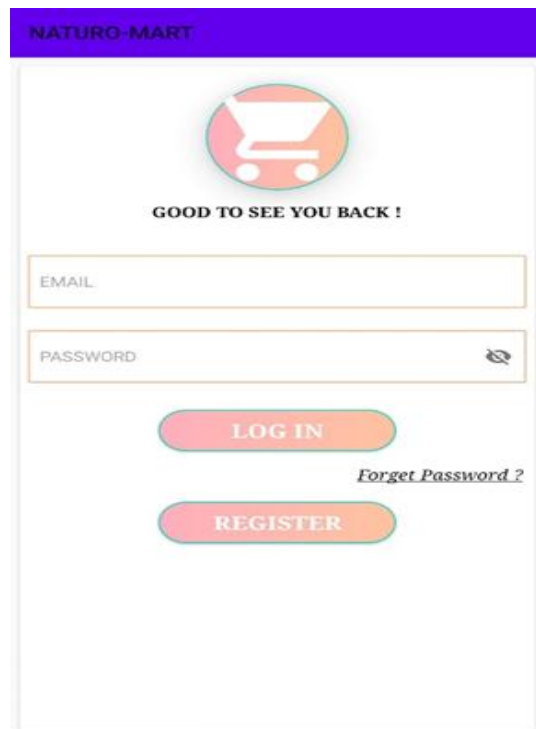


Fig. 6- Registration Screen

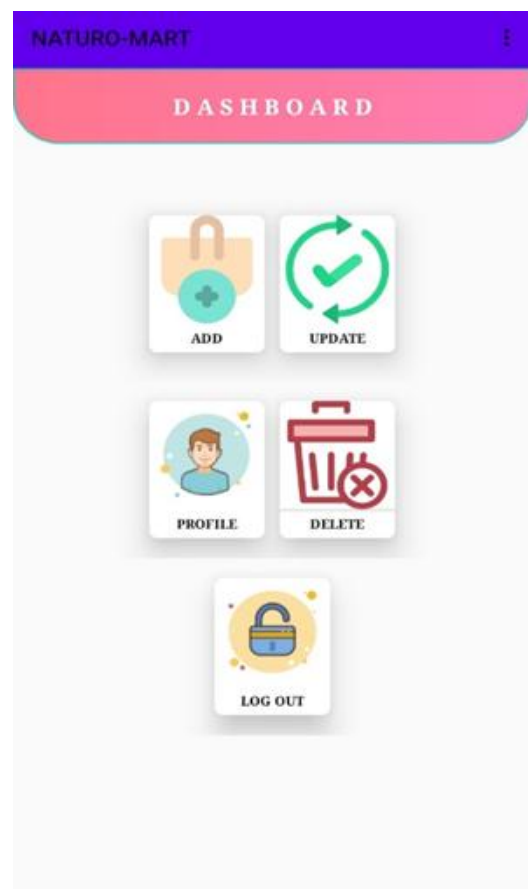


Fig. 7- Vendor Dashboard



Fig. 8- User Profile Screen



Fig. 9- Product List Screen

10. FUTURE SCOPE

As technology changes or any additional user requirement arises, we can add those features to the application. Although the system is complete and working efficiently, new modules which may enhance the system functionality can be added without any major changes to entire system. There are also plans to add favorites list where user can save his/her favorite products frequently bought. Also there are future plans to provide home delivery o the products and adding a payment gateway to make purchasing easier for the customers. As the system is based on object-oriented design, any future changes are easily adaptable. Based on security issues, security can be improved using emerging technologies.

11. CONCLUSION

It can be concluded that our app “NATUROMART” provides all the useful information about the natural and organic products to the users and helps them make better decisions while buying products in future. It is evident that food habits have highest impact on health of an individual and if we follow proper food habits, we can avoid numerous harms to our body. Also, using organic products is definitely better than any synthetically manufactured products which may cause long term harms to body for sake of temporary comfort.

The project is completed in different phases which include different modules. In the registration module, the vendor will register his/her store with the app and then is given rights to make changes to the store as required. The information from this module is further used in login module where we require login Id and password to login into the application. The vendor can then make changes to the list with help of other modules like add, update, delete. The customer or user does not require any login details. He/She can directly view the list of products and all information regarding the products and also the contact details and address of the vendor. This application provides all the necessary information about organic products and may prove to be extremely useful to someone who wants to increase his/her business in natural products and to someone who wishes to lead a healthy lifestyle by using this natural product.

12. ACKNOWLEDGEMENT

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13. REFERENCES

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- [2] "Natural Products". Stedman's Medical Dictionary. *Lippincott Williams & Wilkins. Natural products: naturally occurring compounds that are end products of secondary metabolism; often, they are unique compounds for particular organisms or classes of organisms.*
- [3] National Centre for Complementary and Integrative Health (2013-07-13). "Natural Products Research—Information for Researchers | NCCIH". U.S. Department of Health & Human Services. Natural products include a large and diverse group of substances from a variety of sources. They are produced by marine organisms, bacteria, fungi, and plants. The term encompasses complex extracts from these producers, but also the isolated compounds derived from those extracts. It also includes vitamins, minerals and probiotics.
- [4] https://play.google.com/store/apps/details?id=com.globalfarm.marketyard&hl=en_IN
- [5] <https://play.google.com/store/apps/details?id=agropost.post.agro.com.agropost&hl=enIN>