IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE)
ISSN(e) : 2278-1684, ISSN(p) : 2320–334X, PP : 46-50
www.iosrjournals.org

eVikas-A way to deal with agricultural and homely products

Raghavendra Hegde [#1] ,Shwetha S naik[#2] , Sumangala G Bhat[#3], Pavitra S Naik[#4], Shivprasad L gaonakar[#5]

[# [1, 2]] *Assistant Professor, Department of Computer Science and Engineering, Girijabai Sail Institute of Technology Karwar, Karnataka*

[# [3, 4, 5]] *Student, Department of Computer Science and Engineering, Girijabai Sail Institute of Technology, Karwar, Karnataka*

***Abstract*:** *Villages are the back bone of our country. Nowadays people are facing problems to sell their own products through offline market. Due to lack of communication, labours may not get work/employment properly and even homemade products won't get sold as expected. To overcome this problem, we have come up with new idea of web based application which is named as "eVikas- A way to deal with agricultural and homely products". This is a platform that is dedicated to integrate farmers, co-operative society, retailer, suppliers, labours and customers and bridge the gap between them. Here we can access price and crop prediction for each product.*

Keywords: *Agricultural Products, eVikas, Homely Products, Framers, Labours*

I. Introduction

Agriculture is the backbone of India, after yielding crop/product farmer has a limited amount of time to find out nearest market, current stock details & to determine which market will be more profitable for his crop.This is an android application. It is useful for agricultural and homely products.To support farmers and small scale industries "e-Vikas" is a platform that dedicates to integrate farmers, small scale industries, local administration and end user and there by bridge the gap between them. By using this application people can get the price predictions about the older price details, current price details as well as future price details.

Farmer can add the crop details and quantity to their cart for selling purpose, similar way merchant will add crop names and respective purchasing prices for crops to buy. Farmer and merchant will be able to see the minimum prices of different crops defined by government. This will help the government to assure that farmer will get fair price for his product.. Farmer will be able to find the nearest APMC merchants who are offering highest price to his crops. Similar way merchant can also find the nearest location of the farmer with required crops for buying and selling purpose. Retailers and the suppliers can also sell their products. Labour can get a job through our application. He/she will be notified about work in farms. In addition, they would be get source of income easily.

II. Literature Survey

[1] The main objective of System for Agriculture Recommendation System using Data Mining is to improve the production of crops as well as improve the economic conditions of farmers. At the same time using the available resources optimally and efficiently in today's critical situation of natural resources like lack of availability of sufficient water, electricity and degrading quality of fertile land. In this project, the authors presented a system that can be used to decide the suitable crop for sowing.

[2] The main objective of this study is to formulate, simulate and evaluate a genetic algorithm based model to maximize crop yields and sustain soil fertility. This study develops a nonlinear mixed-integer programming model to solve the maximization of crop yield problem with sustaining soil fertility.

[3] The main aim of this paper is to reach farmers for their awareness, usage and perception in e-Agriculture. For improving agricultural productivity an expert agricultural advice is given to the farmers both in a timely and personalized situations.

[4] Crop prediction model in agricultural mining is to estimate agricultural production as a function of weather and soil conditions as well as crop management. The data mining techniques are used in agricultural field to increase the income of the farmer, reduce the transportation cost and to predict the climate changes using the previously stored data set.

III. Methodology

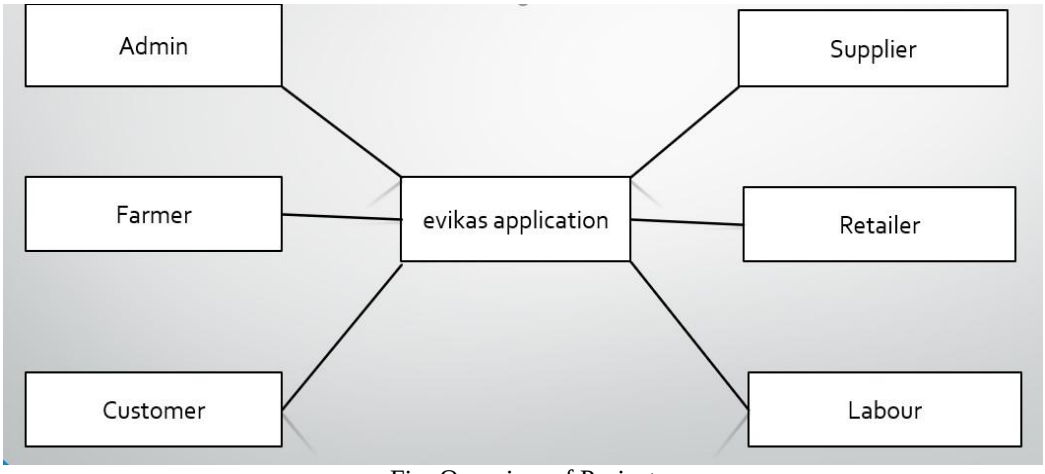

Fig: Overview of Project

1. Farmer/Citizen:
Farmer first has to register in our application his name with Aadhaar card number. Automatically he will receive one time password on his email. He also can register the unemployed farmers to do work in others fields.

2. Suppliers:
Supplier first registers his name with Aadhaar card number. Automatically he will receive one time password on his mobile through email. He will fill his form details such as price details.

3. Retailers:
Retailers first register his name with Aadhaar card number. Automatically he will receive one time password on his email. He will buy crops from suppliers, dealers, or farmers according to their prices and sale with his own rate.

4. Customers:
Customer has to register his user name on this application. He / She can buy the items directly from the farmers.

5. Labour:
Labour has to register first on the application. Then he/she will be notified about work in farms. In addition, they would be get source of income easily.

Figures

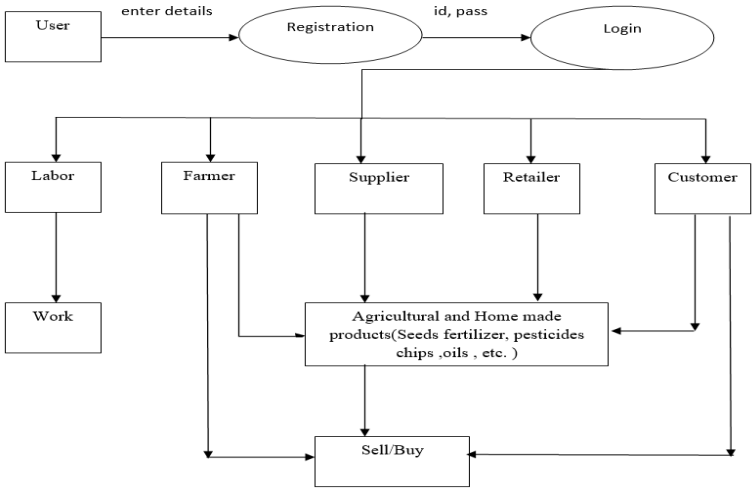

Fig: 1. System Architecture

IV. Implementation

The implementation phase involves the actual materialization of the ideas, which are expressed in the analysis document and developed in the design phase. Implementation should be perfect mapping of the design document in a suitable programming language in order to achieve the necessary final product.

The implementation involves:

1. Careful planning.
2. Investigation of the current system and the constraints on implementation.

Here we have used front end as HTML, CSS, JavaScript and backend as MySQL languages.

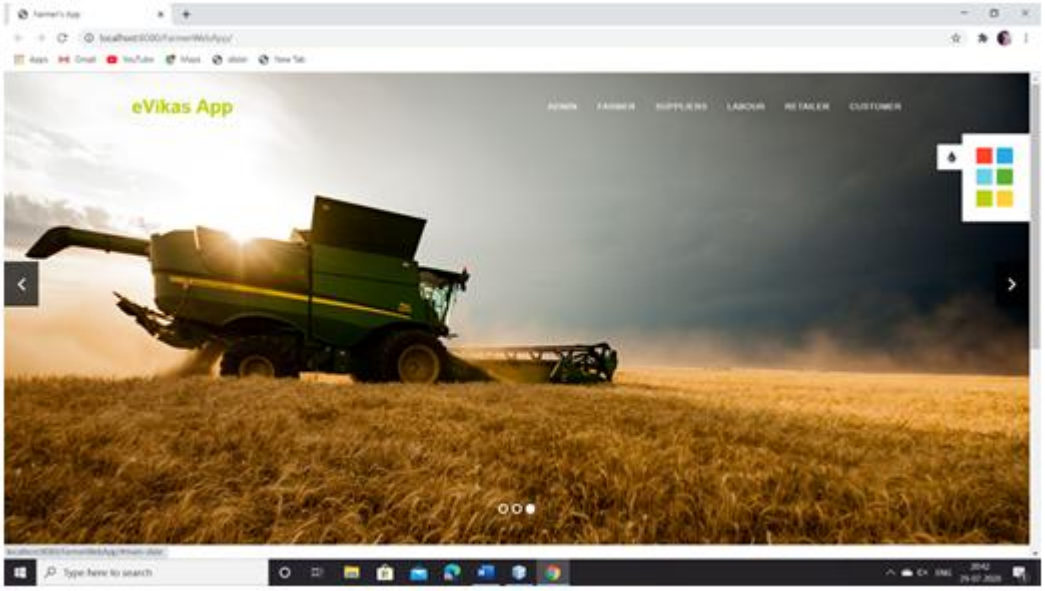

Fig: Home page

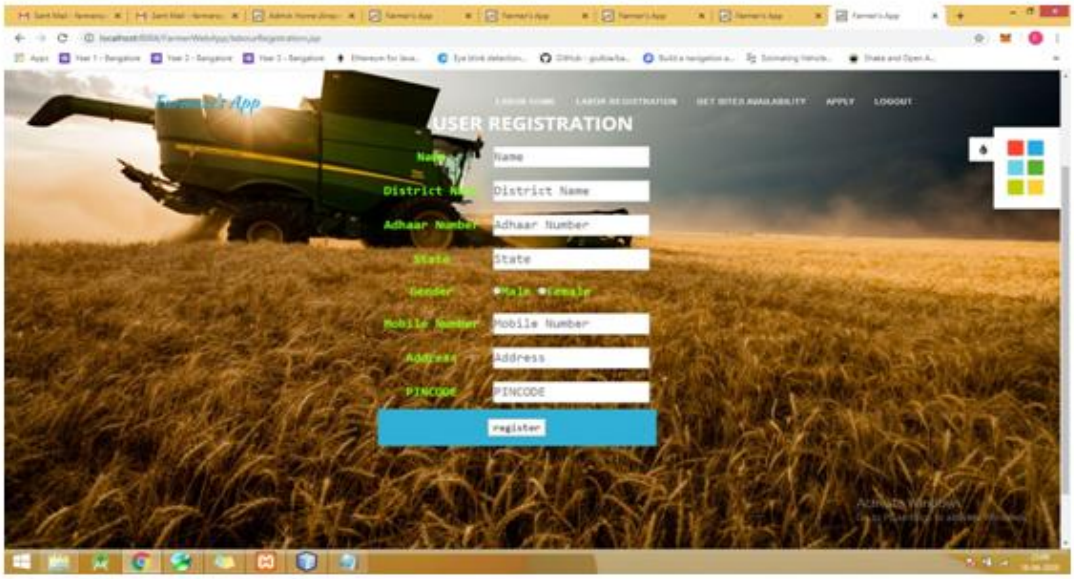

Fig: Registration Page

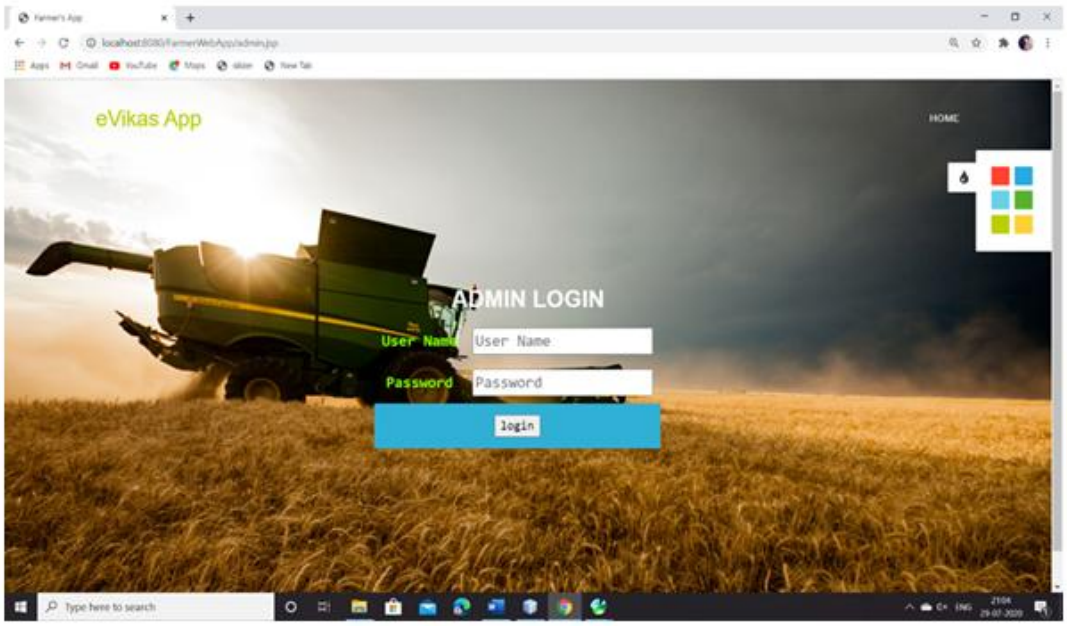

Fig: Login Page

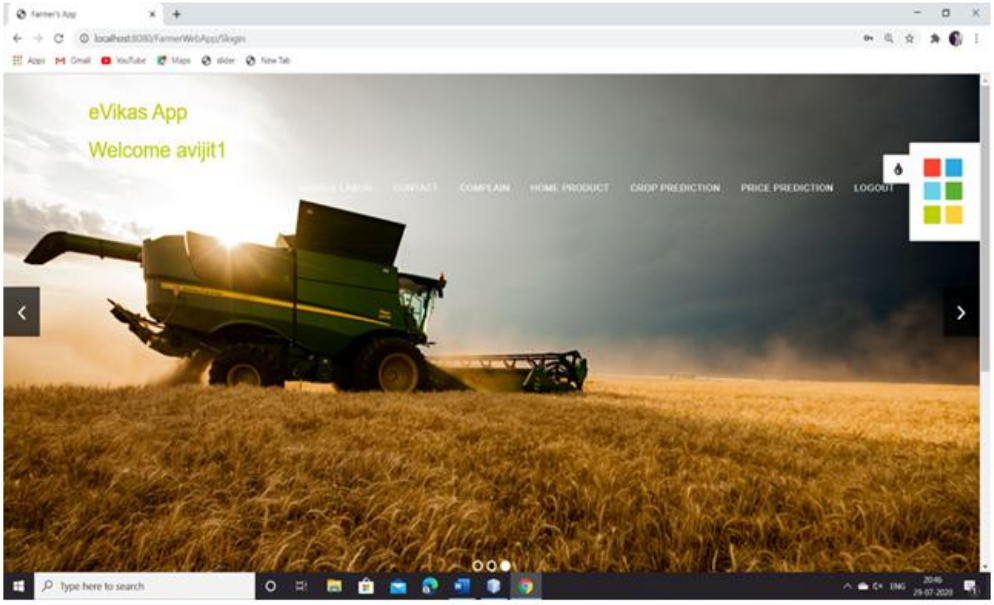

Fig: Farmer Page

V. Results

- Genuine products will be supplied to the customer.
- Fetching market details from application anywhere at any time.
- It creates employment.
- Effective time management.
- This application looks over the problems of farmers, Suppliers, Dealers, customers.

VI. Conclusion

- This application is developed for the farmer's point of view.
- By using this application people can exports and imports crops, grains, seeds.
- Farmers can order the machineries, fertilizers, pesticides for farming. Poor farmers can get the job opportunity, to get work and work for it and get paid. Farmers can get their crops at best price.

Acknowledgment

I express my gratitude to our institution and management for providing us with good infrastructure, laboratory facilities, qualified staff, whose guidance was of immense, help in completion of this project successfully. Apart from my efforts, the success of this project depends largely on the encouragement and guidelines of many others. I take this opportunity to express our gratitude to the people who have been instrumental in the successful completion of this project.

I am grateful to my Project Guide **Ms. Shweta S naik, Assistant** Professor, Computer Science &Engineering, and also I am grateful to beloved **Mr. Raghavendra Hegde**, Assistant Professor and HOD, Dept. of Computer Science & Engineering for their support and encouragement. Without their encouragement and guidance this paper would not have happened.

I would like to thank our dignified Principal **Dr. Suresh D. Mane** for his encouragements and having given me this opportunity to do this project.

The guidance and support received from all the **staff members** and **lab instructors** of the **Department of Computer Science & Engineering** who contributed to this, was vital for the success of the project. I am grateful for their constant support and help throughout the tenure of this project.

Finally, I would like to express my gratitude for my parents for their blessings, my friends and classmate for their help and support for successful completion of this project and I would certainly look forward to future opportunities like this.

References

[1]. System for agriculture recommendation using data mining, Nilesh Dumbre, Omkar Chikane, Gitesh More.
[2]. A genetic algorithm approach to maximize crop yields and sustain soil fertility, Oladapo J. Olakulehin and Elijah Louse Omidiora.
[3]. E-Agriculture Information Management System, Sumitha Thankachan & Dr. S.Kirubakaran
[4]. A review on classification techniques over agricultural data ,Dr. S.Hari Ganesh, D.Pritty Cindrella, A.Joy Christy
[5]. Agricultural Crops Classification Models Based on PCA-GA Implementation in Data Mining, Geraldin B. Dela Cruz, Bobby D. Gerardo and Bartolome T.Tanguilig