AGROWORMS: AN UNIFIED APP FOR STAKEHOLDERS OF AGRICULTURE

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College ***:*** *Tontadarya College of Engineering, Gadag*
Branch ***:*** *Department of Computer Science and Engineering*
Guide(s) ***:*** *Prof. Manjunath Y Kammar*
Student(S) ***:*** *Ms. Soumya V K*
Ms. Sanjana Shivanagi
Mr. Vishalsingh T Katewal

Keywords:

AGROWORMS, AgriCentral, Krishify, Agrostar, BharatAgri, Agricoop, Raitramitra, Agriculturist, ICT, Commodities

Introduction:

Agriculture is backbone of Indian economy and it is primary sector of country. Farmers require advance or experts knowledge to take decision during soil preparation, seed selection, fertilizer management, pesticide management, water scheduling, weed management etc, so that to get high yield. Expert system is now being using into agriculture sector. Expert is most powerful approach that simulates human knowledge from an expert in certain domain for assist human to take decision at a level of or greater than human expert. Expert system helps to farmers in making economically viable and environmentally strong decision related to crop management. After considering success of expert system various expert systems were developed in agriculture.

Problem Statement:

As we have gone through many android applications such as AgriCentral, Krishify, Agrostar, Bharatagri etc and websites such as agricoop, raitamitra etc, there is no feature that farmers, agriculturist, agriculture students and customers meet at a same platform. If they want to communicate with each other, they should search for different sources and hence our project looks to overcome this problem.

Background Motivation:

The idea of the AGROWORMS sprouted at the time of watching Krishi Darshana program on DD Chandana channel where farmers used to share their problems and agriculture scholars used to solve those problems and help farmers to get high yield and thereafter we thought of bringing agriculture students in the same platform so that they can analyze the real world problems and get the solutions for it so that their process of learning will become more practical enough and also by bringing customers into this platform so that direct marketing takes place between farmers and customers.

Objectives:

1. The main objective of this project is to bring farmers, agriculturist, agriculture students and customers in the same platform.
2. To effectively provide appropriate agricultural information in order to increase awareness.
3. To prevent, control and contain diseases, vectors and pests in order to enhance agricultural production and productivity.
4. To promote the development of sustainable domestic and foreign markets for agricultural commodities in order to enhance access and generation of income.
5. Helping farmers through use of Information and Communication Technology Applications (ICT).

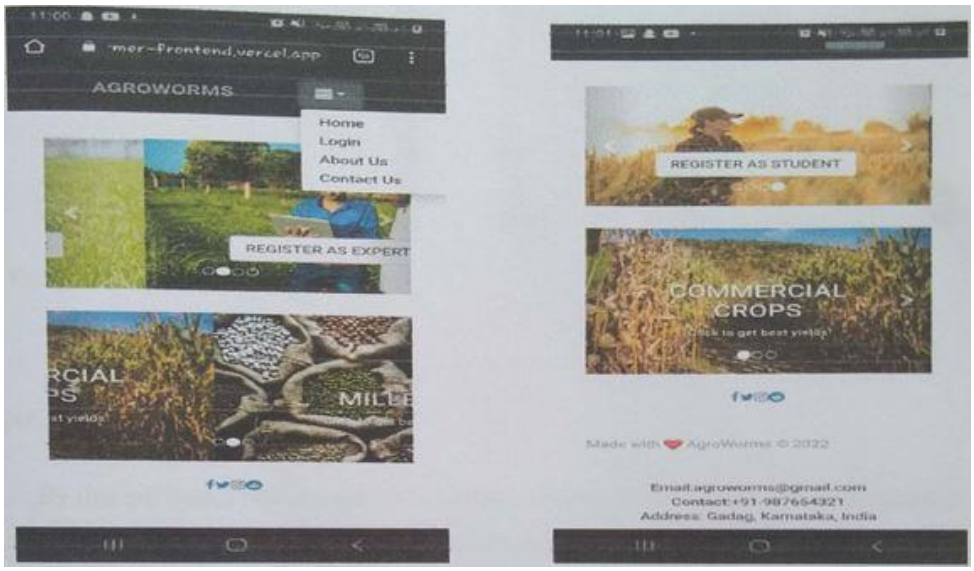
Methodology:

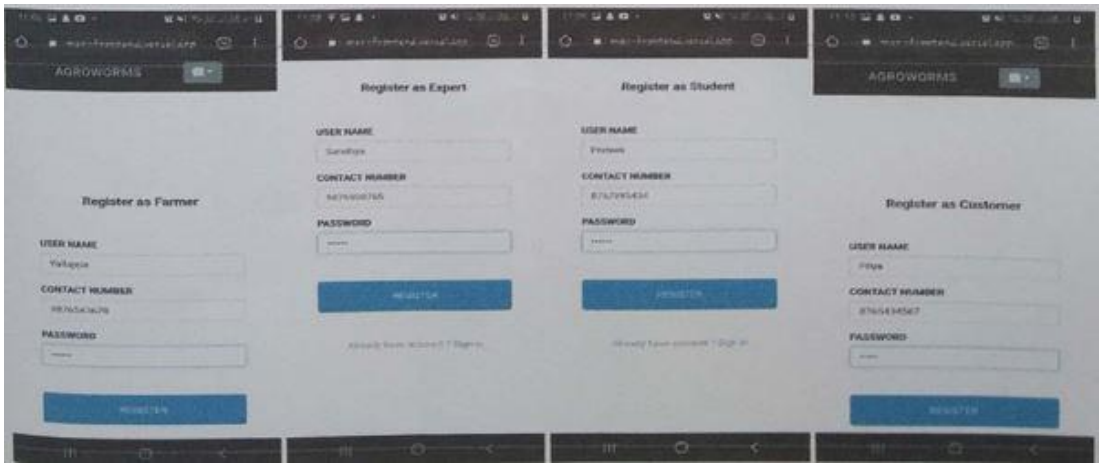
Fig 3.1 Block chain of Agroworms

The block chain of the agroworms deals with an entire process of the website we are going to built-in. We are going to modernizing the farm management software where we are going to bring farmers, customers, agri experts and students in a single platform that benefits the direct marketing between farmers and customers so that there will be no need for the customers to bare the huge burdens. The price on the products will be comparatively less. Agriculture students can analyze the real world problems and the way of learning becomes more practical. Farmers can get the solutions related to their farm management by agri experts.

Conclusion:

By this we would like to conclude that the outcome of this project is to bring farmers, agriculturist, agriculture students and customers in the same platform so that the entire agriculture sectors will be made available in this single web based application therefore there is no need of downloading many other applications or checking many other websites.





Scope for future work:

Future of agriculture is a very important question for the planners and all other stakeholders. Government and other organizations are trying to address the key challenges of agriculture in India, including small holdings of farmers, primary and secondary processing, supply chain, infrastructure supporting the efficient use of resources and marketing, reducing intermediators in the market. There is a need for work on cost-effective technologies with environmental protection and on conserving our natural resources.