

Smart Agri Farming

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Abstract: Agriculture is the major source of income in countryside areas. Agriculture is one of the main livelihoods in India and great impact in the Indian economy. Agriculture sectors net share in the country's GDP is 17.32 %. Society is going through technological era. Rural mobile subscriber base has been increasing steadily over last seven years. With the widespread availability of smartphones and internet, there is a huge potential for supplying essential information via this means. The project also discusses the scope of the applications, and what improvements must be made to make them reach to a wider audience. It bridges the gap between the availability of agricultural input, and delivery of agricultural output and agriculture infrastructure. Application of IT is associated with markets in the developed countries where capital intensive method of agricultural production is followed. However, in a country like India where rural base is wide, its relevance cannot be overlooked. In addition to facilitating farmers in improving the efficiency and productivity of agriculture and allied activities, the potential of IT lies in bringing about an overall qualitative improvement in life by providing timely and quality information inputs for decision making. The term digital market means a platform that is dedicated to integrate farmer, Merchant/Markets, government and end user and thereby bridge the gap between them. It also let everyone to be updated with the changing market scenario. Indian farmers faced many challenges and one of them is that to get a good profit for the efforts and investment that they had put in.

Keywords: Sensors, Web Camera, electromyogram(EMG), human, computers, natural interaction, human computer interface, OS.

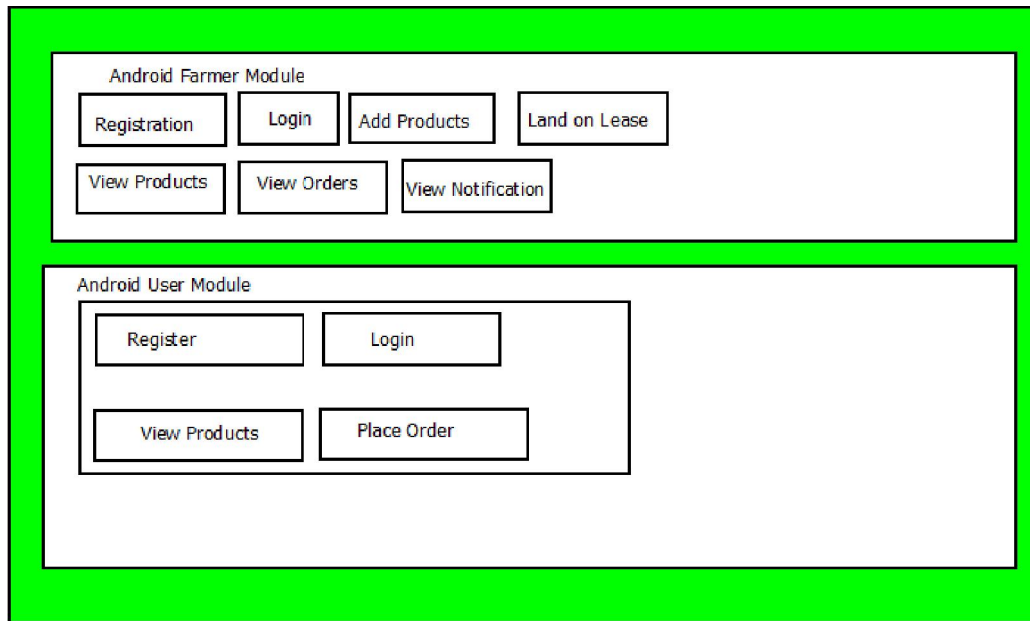
I. INTRODUCTION

E-commerce is clearly beginning to have a major impact in the agricultural sector. The way people go about purchasing agricultural products is of great concern. Most of the time customers have to travel far distances to get agricultural products and getting the right quality is not ensured. Our project aims to help farmers as well as customers for buying and selling agricultural products across the country using a computerized approach. The website will guide the farmers to access new farming techniques, compare current market rate of different product. New opportunities are shaped by smart phone technology for farmers are capable with a low cost smart phone and the particular software to gain facilities which couldn't available on their hands before. In the bays of financial crises, farming is becoming more and more vigorous and much more important to be completed efficiently during the time period. Several mobile applications have been developed for livestock management, agro mobile, etc. this paper deals with the analysis of available android based applications which are useful for farmers. There are different e-commerce systems both for B2B and for B2C-relations, e.g. for NHPAP. Moreover, tailored applications for customer relationship

II. MOTIVATION

The aim of the present work is therefore to propose and experimentally evaluate an automated system, Now a day is very difficult to farmers to sell their product so our purpose to provide best and secure platform so farmers can sell their product online.

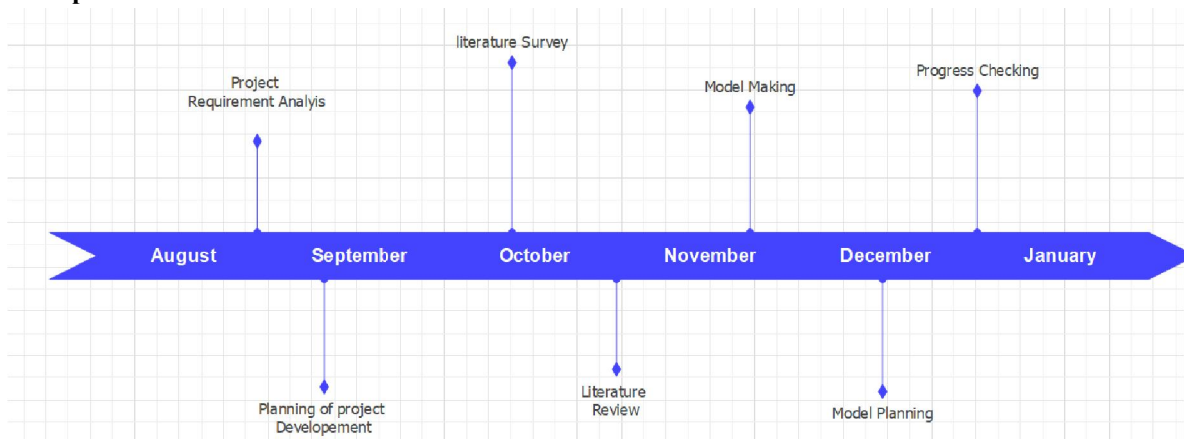
II. SYSTEM ARCHITECTURE



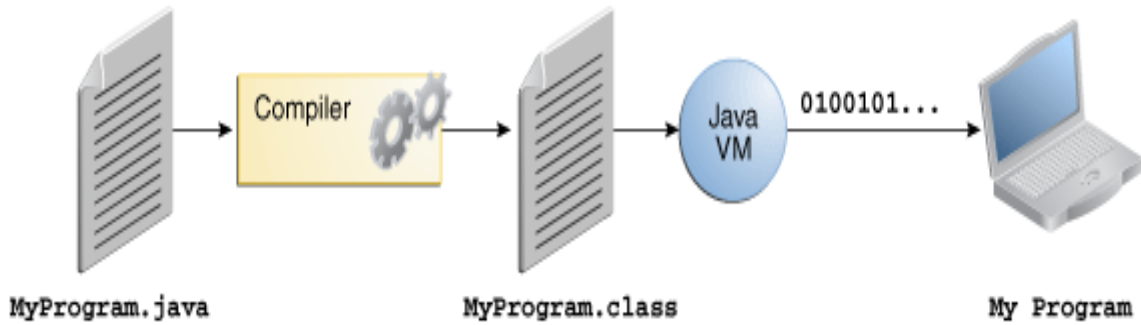
Planning

This is the first phase in the systems development process. It identifies whether or not there is the need for a new system to achieve a business’s strategic objectives. This is a preliminary plan (or a feasibility study) for a company’s business initiative to acquire the resources to build on an infrastructure to modify or improve a service. The company might be trying to meet or exceed expectations for their employees, customers and stakeholders too. The purpose of this step is to find out the scope of the problem and determine solutions. Resources, costs, time, benefits and other items should be considered at this st

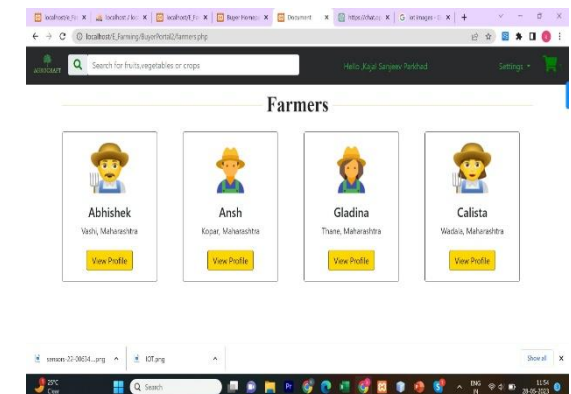
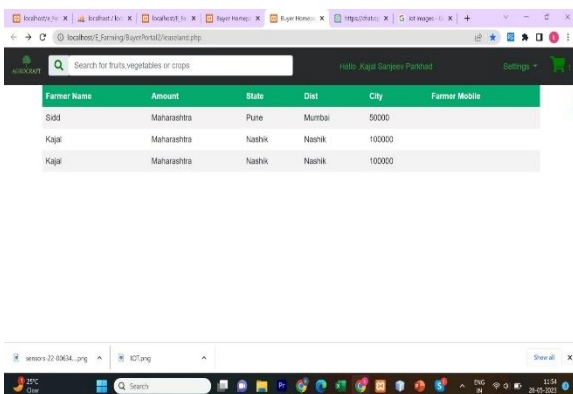
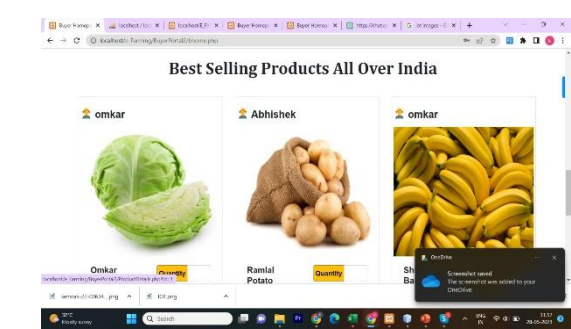
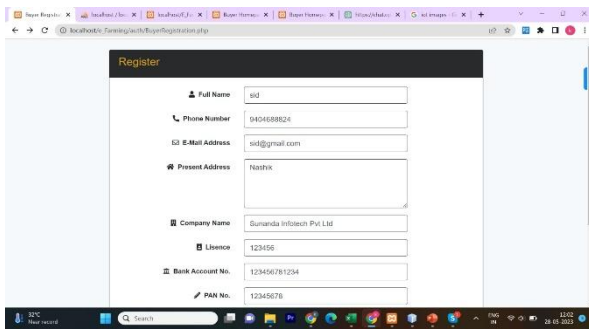
System Implementation Plan



Implementation



Module of Project



V. ADVANTAGES

- Easy to cover marketing
- Increase Productivity.
- Low-cost module.
- Easy installation.

VI. APPLICATIONS

- E-commerce
- Online Marketing
- Farmer portal applications

VII. CONCLUSION

Different apps are developed and are used by the farmers for their specific purpose. Many apps are being utilized for different kind of functionality regarding the farming activities like cropping information pesticides, fertilizer, market rates, online shopping for farmer, irrigation information, estimation of crop production selling of crop, weather information and information regarding the best practice of farming. A barrier of language is also the cause of problem as half of application currently available for farmer is in English language, and only a few farmers are able to understand the language completely. We conclude that the functionalities listed in the different applications should be available in a unified one which will be easy to access and in the language easier to comprehend.

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