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# FARMING ASSIST WEB APPLICATION

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*Abstract: Majority of the issues faced by the farmers can be solved by technology not only from the R&D of hybrid plants and seeds but also by providing information about new markets, producing value added products when market is down, platforms to raise queries regarding agricultural problems, the fertilizers usage for these crops, the soil conditions in which these crops yield more, and the suitable climatic and environmental conditions for these crops, etc. This project FARMING ASSIST WEB APPLICATION is a prototype model to solve the issues faced by farmers in the current environment. This project will provide information about weather, current market, information about various crops, fertilizer required at various intervals of time, best crop that is to be planted at your field, etc. This project can act as a survey to the farming issues without a field work.*

*Keywords - agriculture, farming, market, queries, weather*

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## I. INTRODUCTION

Agriculture is an important sector in Indian economy. According to the data provided by Department of Economics and Statics (DES) in 2015 , agriculture contributes 18% of the Gross Domestic Product(GDP) and 50% of the total workforce in the nation. India remains largest production house of different agricultural products like paddy, wheat, pulses, groundnut, vegetables, sugarcane, tea, jute, cotton, and so on. Some areas that should be improved are advertising front, low level of business sector reconciliation and integration, availability of dependable and convenient information needed by farmers on different issues in farming.

A boost in agri sector can cause a spike in Indian GDP. which can be achieved by providing information about the suitable conditions for planting crops, knowledge about the optimum utilisation of natural resources, producing eco-friendly pesticides rather than conventional pesticides which are very costly, protecting conventional seeds which can produce offsprings rather than high dependence on genetically modified seeds, etc. Restoring soil ripeness and profitability at the individual level and improving farm level economy to restore confidence amongst the farmers provide a better solution to the food security of our nation.

## II. EXISTING SYSTEM & PROPOSED SYSTEM

### **A.EXISTING SYSTEM**

There are many websites to know the weather forecast details, a few websites for market details. There are a few applications to raise queries regarding a crop. The existing system does not have an integration of all these factors. The collection of information is a tedious task for the user. Why agriculturists avoid information technology in farming is due to the trust factor provided by the websites. Market updates are not clearly reflected in the majority of websites for market update. The query section handled in many websites is not responding correctly.

### **B.PROPOSED SYSTEM**

The proposed system known as FARMING ASSIST WEB APPLICATION integrates all details regarding farming into a single portal. A vast database for crop details regarding planting, fertilizing, water requirements, pesticide

control mechanism maintained by admin. A query section raised by users and answered by experts itself. The market related activities are maintained by an NGOs. Thus relevant information can be collected and updated easily.

The development of this new system contains the following activities; reduce complexity in managing the data related to the agricultural products, soils, fertilizers, market details. Rich the user interface is provided in order to interact with the application. User Queries and Answers are maintained.

### III. MODULES DESCRIPTION

The modules in this project are divided based on the participants, this project contain at least three modules they are Admin Module, User Module and Expert module. The Admin module controls and maintain all the activities of the web, updating weather and market update, managing the user and expert activities, maintain a vast database about different varieties of crops, admin can also respond to the query of the users. The User module can access the data regarding the crops planting and can raise queries regarding farming. A user can be anyone who has an interest in agriculture or student, etc.

The Expert module is exclusively for people who are agriculture officer or a qualified one with practical knowledge in agriculture. They handle the queries raised by the users and can update the crop related database. Many modules can be included in this project based on the functionalities of the participant. A fertilizer agent module can be added to give information about good fertilizers available in the market and a guest user module who has limited access to the web page.

### IV. EXPERIMENTAL RESULT

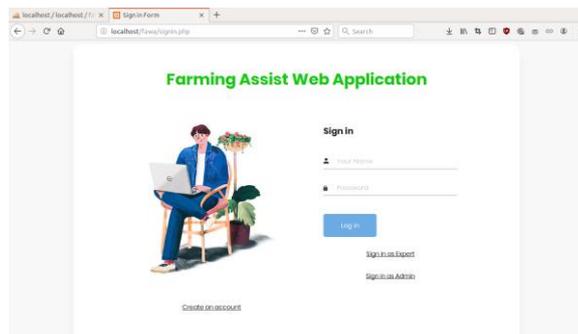


Fig 1-Sign in page



Fig 2-Home page

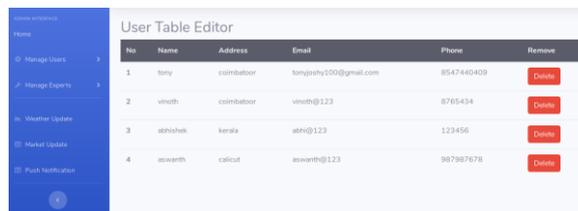


Fig 2-Admin page

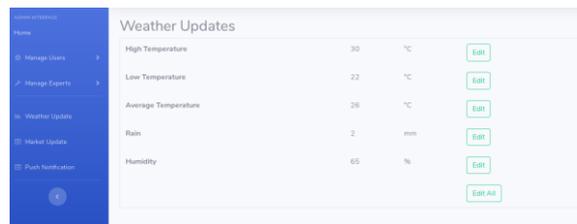


Fig 2-Weather details page

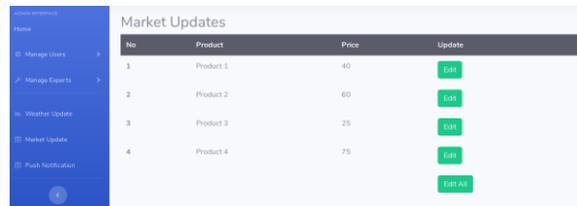


Fig 2-Market details page

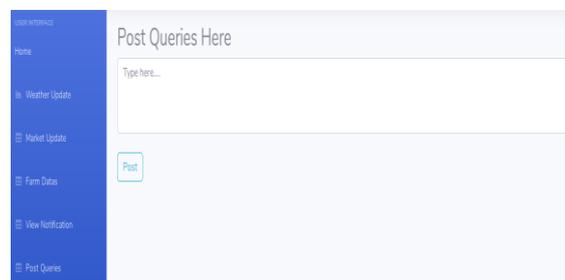


Fig 2- Queries page

## V. CONCLUSION

We provide various information required for farmers and agricultural students in the database. To provide solutions to the queries posted by farmers is done by an expert make the web portal effective in solving agricultural problems. This makes agriculture more interactive and this portal is very useful to farmers and agricultural students to enhance their knowledge. This web application can be used to conduct a survey related to the issues faced by farmers.

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