

# Farmer's App

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## I. ABSTRACT:-

Mobile applications and services make things simpler fulfilling our daily needs for information and communication. Mobile Applications have brought a new revolution. In this paper we provide one such mobile application named called "Farmer's-App" under development, which makes the farmer's life easy. It keeps a farmer updated with all the information related to crop, pesticides, Machinery & Bank facilities etc. It provides detailed information about which crop to grow in which season and which crop is suitable for that particular area in which the farmer is living.

**Keywords: GPS(Global Positioning System)**

## II. INTRODUCTION:-

India is mainly an agricultural country. Agriculture is the most important occupation for most of the Indian rural families. The project focuses on improving productivity in agriculture and providing assistance. Identifying the best suitable crops for their lands. Guidelines for selecting appropriate fertilizer in due intervals. Latest technology, machinery that could be used for cultivation harvesting etc which are available in the market for their choice. Giving knowledge about the where about of availability of

machinery, fertilizer etc... Using GPS technology.

## III. EXISTING SYSTEM

Currently farmers are using various mobile apps which are available for farmers in India. But the applications so used are less useful, due to insufficient information available in the present android mobile application.

Previously mobile applications don't have proper management of irrigation information in detailed fashion. And it also doesn't have information regarding banking facilities and latest machinery details available to the farmers. Current existing mobile applications don't have detailed description about the productivity, and also GPS (Global Positioning System) system is not available in the existing system.

## IV. PROPOSED SYSTEM:

In our mobile application we are giving detail information regarding how agriculture can be improved in Raichur zone. Our mobile application will be helpful for the Hyderabad Karnataka reason in which Raichur is one part of it under 371Act. Our mobile application is especially build for Raichur by providing

detailed information about Major crops which are growing in Raichur , and which fertilizer should be used for which crops, which machinery should be used ,and where ,such guidelines, how to prevent water as well as how to use water for crops, guidance of suitable soil for agriculture. In our mobile application we are using GPS (Global Positioning System) system to give proper location of machinery shops available in Karnataka. In our mobile application we are giving complete description about crop, fertilizer and machinery loans in banks of Karnataka and this app which will be helpful for Raichur district.

### V. SYSTEM ARCHITECTURE

In our project system architecture consists of 6 modules they are crops pulses and oilseeds, fruits flowers and vegetables, machinery and fertilizers, bank facilities. In crops module gives detailed description about crops, and also which crops/vegetables to be sown when and how and what type of climate is required for a particular crop and what type of fertilizer required for crops. In banking module gives complete description about crop, fertilizer and machinery loans. In fertilizers Inform about diseases to particular crops and their appropriate, efficient and economical remedies, in scientist module gives Contact us facility for unresolved issues.

We have developed the app with six modules:

#### MODULE- 1

It gives detailed description about taluk names, category details and sub category details.

#### MODULE- 2

It gives detailed description about crop details like Taluk name, Category, Sub-category, crop image and information.

#### MODULE -3

It gives information about fruits and flowers like same as module2

#### MODULE- 4

It gives detailed description of Bank information about crop, fertilizer and machinery loans. And what are the current bank facilities available for farmers.

#### MODULE-5

It gives information about fertilizer and machinery details like taluk name, shop name ,fertilizer & machinery images, owner name, phone no and address etc .and it also give Information about what type of fertilizer required for crops.

#### MODULE 6

GPS system is available. it gives information for farmers within the particular position they can search what type of machines available for particular location and which one is near.

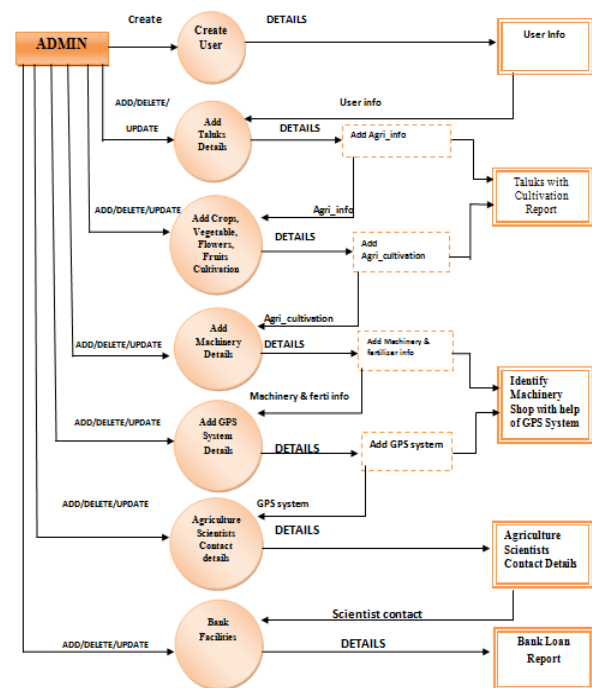


Figure1: Block diagram of farmers application

## VI. WORKING SCENARIO

The user is granted with easily login session with their username and own phone number as password. Then select the modules according to his requirement and go in depth about each module and find a solution to their problem and also with the help of other modules for gathering more information. The next screen will come accordingly to the feature selected by the farmer that is; if the farmer has selected the menu item “resources” then the next screen will provide the information about pesticides, crops vegetables, fruits and flowers to the farmer. Crop Related Data will provide detailed information about which crop to grow in which season and which crop is suitable for that particular area in which the farmer is living. Frequently Asked Questions to get awareness about the farming or cultivation will contain appropriate answers to some common queries. In Contact us feature of our application, farmers can contact the scientists.

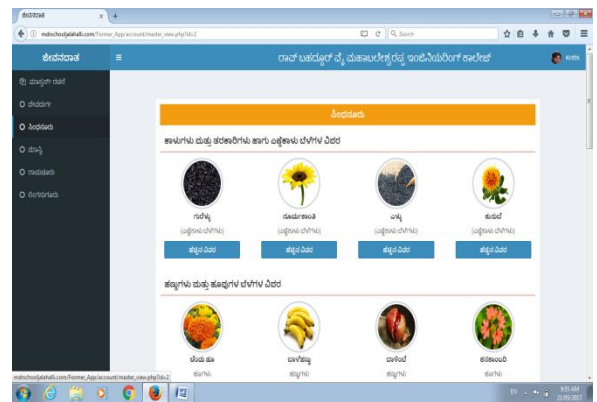
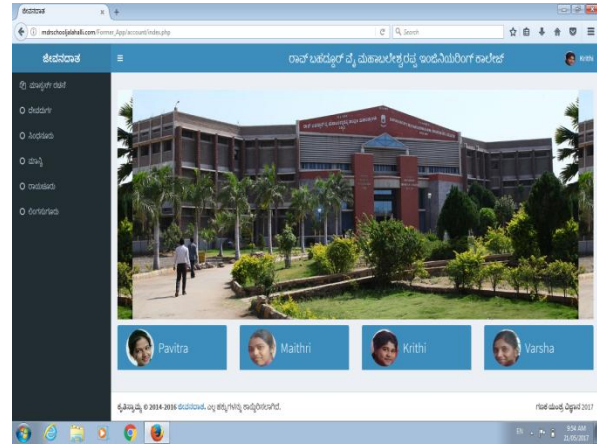


Figure: Main Page

Figure: Crops/fruits/veg/flowers details

## RESULTS:

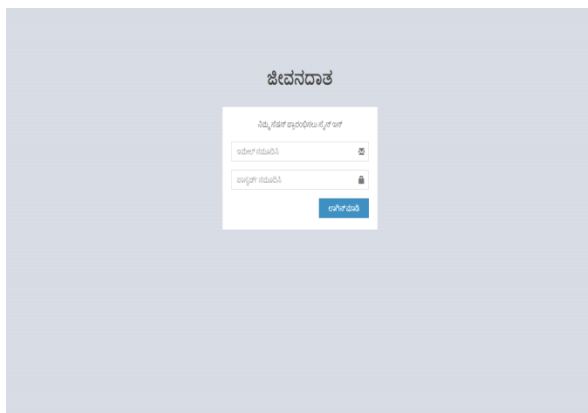


Figure: Login Page

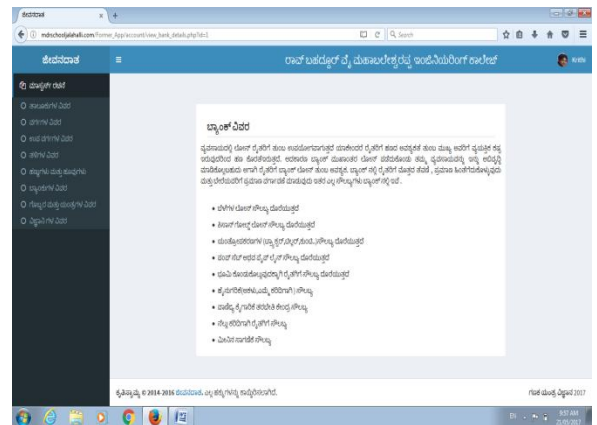
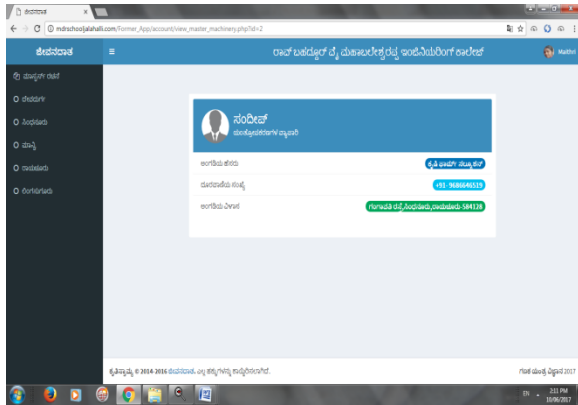


Figure: Bank information



**Figure: Fertilizer shop information**

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## CONCLUSION

This app which is build especially for the Raichur region belt would help the farmers in utilizing this app and which would solve their problems, and keep them up to date with current trends in all areas and bringing awareness in them. As a part of future enhancement there is plan to shortly upload this app into Google app store to help farmers .and also there is a bright scope in future to keep updating the app with more data and some more modules based on need usage.

## REFERENCES

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