

## Kisan Seva Portal

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**Abstract**— India is country whose economy's major part is dependent upon farmer of our country. Farming plays a major role in India's development but profits earn by the farmers are not up to the mark so in this project we try to help farmers to remove additional time and cost they spend with munshi. The project is based on providing farmers a platform where they can save their data regarding of the money they spent on tools, electricity and other utilities and at last they can calculate their overall expenditures and cut off extra or additional expenses. A record is maintained in our project where farmers. A record is maintained in our project where farmers only provide their data or delete whenever they want to do so. This project made in such a way that farmer can easily understand it's working.

**Keywords:** Agriculture, Information and Communication Technology, Android, Database

### I. INTRODUCTION

Farmers are a necessary part of the survival of a number of societies due to the fact they grant food and fiber that nourishes and cloths us. They make accountable use of herbal sources and make use of both primitive and very advanced applied sciences to accomplish this.

This project provides a database to the farmers to calculate their overall expenditures and cut off extra expenses which they can save and earn more profits. In this project additional services are also provided which includes information of major crops, government schemes, information of seed retailers, weather forecast and this project is available in both Hindi and English. KISAAN SEVA is all about a website which is dedicated to farmers. KISAAN SEVA is also available in English as well as in Hindi so this project does not have language barrier, farmers which are not capable of understanding English can also have an access to this website comfortably.

KISAAN SEVA is majorly a record-based website with the help of this website farmers can store or maintain database of their crops, pesticides, resources as well as tools which are required by them on daily basis. We have opted this topic because farmers of India are not well skilled for keeping record of their crops or expenditures, they have to visit Accountant (munshi) of their village which take huge amount of money as a fee. To overcome the expenses done on an accountant we have introduced this project which keep them updated with their actual crops, pesticides and total expenditures.

During the course of this project we are removing the additional involvement of accountants, we are trying to provide them government rate list which is updated on regular basis. Providing them rate list helps farmers to sell their crops on updated as well as appropriate prices. We are also connecting them with updated information of government schemes to help farmers to take advantages of government schemes.

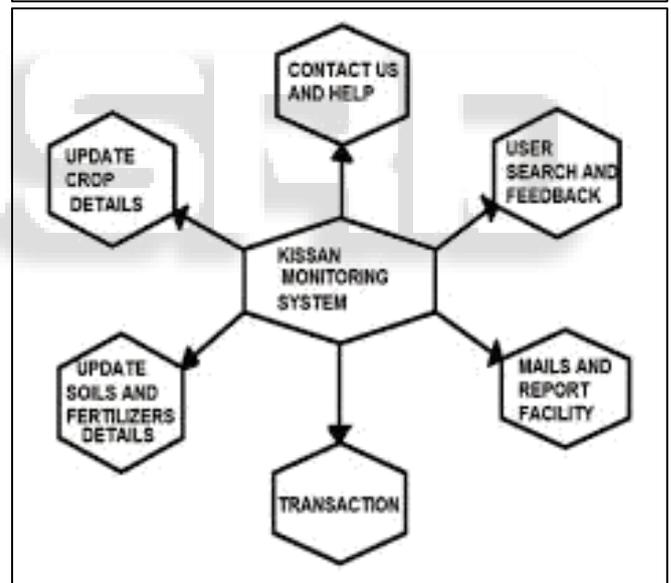


Fig. 1: Website Architecture

### II. LITERATURE SURVEY

Vishal Sharma, Dr.Sunil giri et al. [1] introduced Rice is the primary grain consumed as a meals in India which is found in nearly each and every Indian kitchen. It is the most frequent grain and the most common food in India; however, India is now not only a huge consumer of rice but additionally it is the 2nd biggest producer of rice in the world after China. India additionally holds the largest agriculture land for paddy production in the world. In 2009 total arable and for paddy in the world is 158300068 hectares with the complete manufacturing of 685240469 heaps of paddy, out of which 41850000 hectares of the area is held via India only, which produced 133700000 lots of

paddy simply second after 196681170 heaps by means of China. India leads in phrases of the land holding, while the manufacturing is led by China.

Greg linden, Brent smith et al. [2] brought in order to draw users' interest and to extend their pride in the direction of online Information search results, search engine builders and providers try to predict consumer choice based on the consumer behavior. Recommendations are provided via the search Engines or on-line vendors to the users. Recommendation structures are carried out in commercial and non-profit internet sites to predict the consumer preferences. For business Web sites, accurate predictions can also end result in higher promoting rates. The important features of recommendation systems include analyzing consumer information and extracting useful statistics for further predictions. Recommendation systems are designed to allow customers to stumble on the preferable items quickly and to avoid the feasible information overloads. Recommendation structures follow statistics mining strategies to decide the similarity amongst lots or even tens of millions of data.

### III. IMPLEMENTATION

By presenting facility of records and conversation for the farmers easiness as compared to present websites. Most essential aspect is to use this website form cellular phone or pc which is more useful in day to day lifestyles to handle. Wi-Fi or Internet Connection using GPRS can be used for the different information's. For that CodeIgniter a popular open source development framework is installed in our system, for hosting the website and to create a local server xampp is used.

This purposed system provides databases so instead of maintaining the records on paper we can have it on the database. Weather forecasting will be available for the farmers. Farmers can know how much profit they will have or loss if any. The details of different retailers will be available for the better selling of crops. The process of the login will be a secure way for the better protection of the farmers details. This portal will help farmers to calculate their expenditures so that the farmers can maintain a record of their money expenditures. This portal will be easy for all the farmers to use. A hand held mounted display will be available for the farmers to gain a proper knowledge of the farming to grow better crops and help them for a good cultivation.

Attributes	Data Types	Description
name	string	Name of the user
userid	numeric	ID of the user,primary key which is not null
password	numeric	Password should be combination of 1 to 9 numbers
confirm password	numeric	Password should be combination of 1 to 9 numbers

Table 1: Attributes of database

#### 1) Internet:

It is a network of networks that consists of millions of personal and public networks that are linked by means of a huge array of digital and optical networking technologies.

#### 2) Android Studio:

It is an IDE to build android application.

#### 3) MY SQL:

A relational database stores data in separate tables rather than putting data in bog storeroom. The database structure is

organized into physical files optimized for speed. The logical model, with the objects such as database, tables, views, rows and columns.

#### 4) DB:

Database

#### 5) ER:

#### Entity Relationship

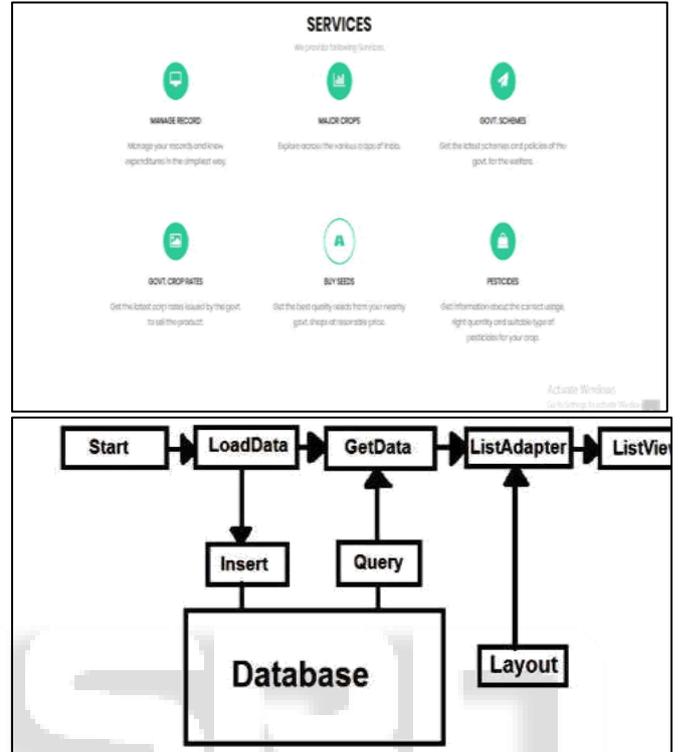
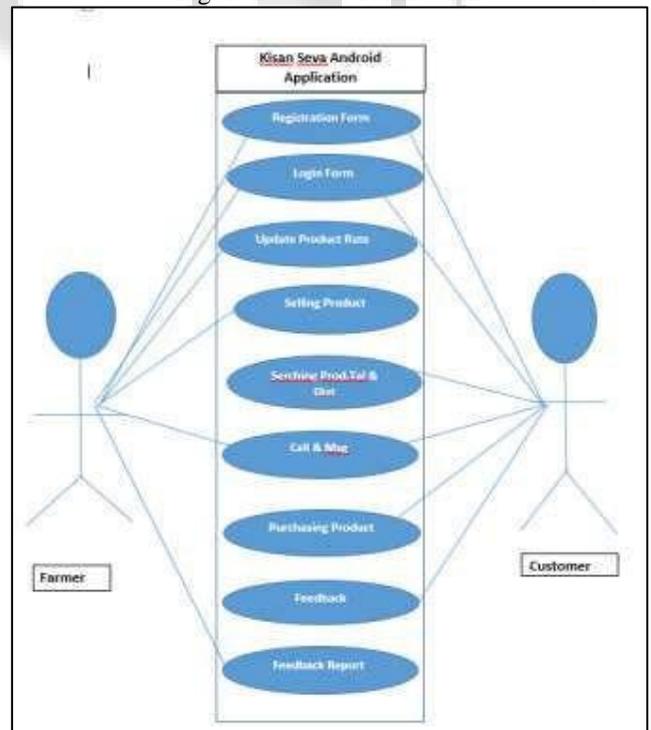


Fig. 1: Database Framework



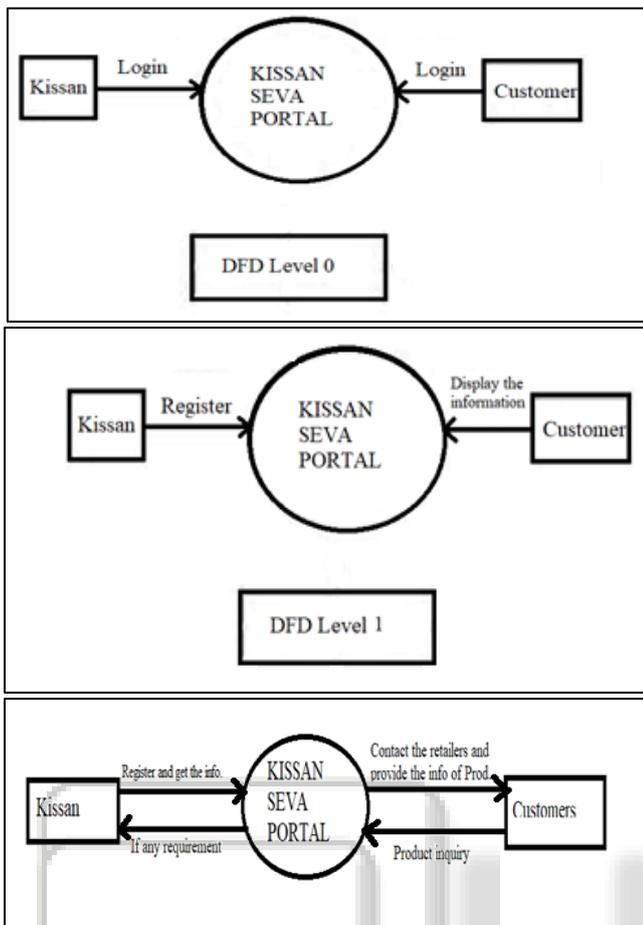
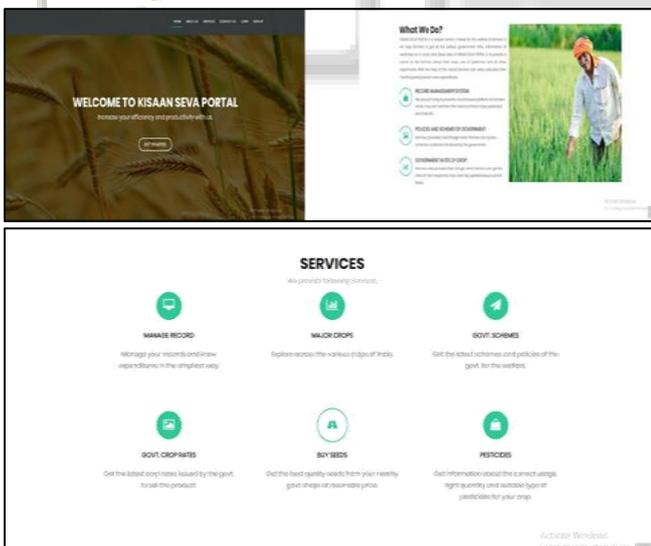


Fig. 2: DFD level Diagram

#### IV. RESULT



#### V. CONCLUSION

This is to conclude that the project that we undertook was worked upon with an honest effort. Most of the necessities have been fulfilled up to the mark and the necessities which have been remaining, can be executed with a quick extension. Our mission is solely a humble venture to fulfill the wants of a dialogue discussion board at college level.

Several user-friendly coding has additionally adopted. This package shall prove to be an effective package deal in pleasing all the necessities of the organization. The undertaking is primarily based on providing farmers a platform where they can keep their data regarding the money spent on seeds, tools, electrical energy and different utilities and at final they can calculate their common costs and reduce off extra or additional expenses. Through this application farmers can get acceptable expenditures for their crops. A manageable evolution of the weather element in an agricultural app would be to make the content actionable by means of linking agronomic records and climate forecasting records to produce dynamic advisory customized to the give up user. The latter would not only make the module extra relevant but also enormously personalized to the farmer increasing its engagement potential. This paper gives the facilities to the user and farmer for records and conversation between them through the usage of Android facility with the desirable use of database and internet. Proposed work is to function the implementation Kisan Monitoring System which will clearly assist for the humans in rural areas in AGRICULTURE field.

#### VI. FUTURE WORK

It would be able to give suggestions on the basis of the record of the farmer i.e. what the farmer should grow, know which crop will grow better in his land. The main objective of developing “Kisan seva portal” application is to help farmers by providing all kinds agriculture related information in the website. This is farmer administration website application which assists farmers to supply best-practice farming processes. It helps farmers to improve their productivity and profitability. It enables farmers to sell their products online and farmers can purchase tools and seeds directly from seller. Farmers can view labour’s profile and they can hire labour’s.

#### REFERENCES

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