# “Android Application for Farmers real time assistance”

## PROJECT REPORT

**SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE**

**AWARD OF DIPLOMA IN**
**COMPUTER ENGINEERING**


**SUBMITTED BY**

**Pawar Sanika Jaysingh: 40** **Raut Vaibhavi Vijay: 43**

**Shirsath Vaishnavi Babasaheb: 49** **Tanpure Pratiksha Balasaheb: 54**

**GUIDE**
**MR. Nake Sir**




**DEPARTMENT OF COMPUTER ENGINEERING**
**GOVERNMENT POLYTECHNIC, AHMEDNAGAR**


**(2020-21)**

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## GOVERNMENT POLYTECHNIC, AHMEDNAGAR

**(2020-21)**

GOVERNMENT POLYTECHNIC, AHMEDNAGAR

# CERTIFICATE

This is to certify that,

| | |
|---|---|
| **Pawar Sanika jaysingh** | **40** |
| **Raut Vaibhavi Vijay** | **43** |
| **Shirsath Vaishnavi Babasaheb** | **49** |
| **Tanpure Pratiksha Balasaheb** | **54** |

of final year Computer Engineering students have submitted their project report on

**"Android Application for Farmers real time assistance"**

during academic session 2020- 2021 as a part of project work described by Government Polytechnic, Ahmednagar for partial fulfillment for the Diploma in Computer Engineering in the fifth semester.

The project work is the record of students own work under my guidance and to my satisfaction.

**MR. Nake Sir**
**Guide**

**MR. Muley Sir**
**Head**
**Department of Computer Engineering**

**Principal**
**Government Polytechnic, Ahmednagar**

# ACKNOWLEDGEMENT

We would like to avail this opportunity to thank all of the people who have stood by us in, encouraged us, inspired us and have contributed greatly in providing us with the joy of achievement and thrill of creative effort experienced by us all the way through the accomplishment of ours project

I would like to place on record my deep sense of gratitude to Mr. Nake Sir, Dept. of Computer Engineering for his generous guidance, help and useful suggestions, constant encouragement.

We would like to take this opportunity to express our sincere gratitude to Mr. Nake Sir, Head of Dept. of Mr.Muley Sir, for his stimulating guidance, continuous encouragement and supervision throughout the course of present work.

I am extremely thankful to Mr. Nake Sir, Principal, for providing me infrastructural facilities to work in, without which this work would not have been possible.

**Pawar Sanika jaysingh**

**Raut Vaibhavi Vijay**

**Shirsath Vaishnavi Babasaheb**

**Tanpure Pratiksha Balasaheb**

## ABSTRACT

The aim of the system is to develop a system (Application), to help in the field of agriculture. The main objective of this app is to provide direct market rates for either to sell or to buy vegetables, fruits, information of weather forecasting, information about places near your area to get Soil health card and also the updates of government's schemas. To provide information about different variety of crops suitable with respect to type of soil and weather, new methods and technologies can be adopted to get better or good result. Here the main focus is on crop and its solutions i.e. Crop treatment methods, Crop production methods (like precautions and solution by using correct quantity of feticides and insecticides.)

To give more information about successful farming in order to decrease the ratio of attempting suicide and even how to improve their growth in the field of agriculture. Providing some experts contact for any query of farmers or any common person related to agriculture.

# Content Page

# 1. INTRODUCTION

- Objective of the Study

India is an agriculture based developing country. 65-70% of Indian population is being depends on agriculture for their living. Information dissemination to the knowledge intensive agriculture sector is upgraded by mobile-enabled information services and rapid growth of mobile telephony. It bridge the gap between the availability of agricultural input and delivery of agricultural outputs and agricultural infrastructure Mobile computing, cloud computing, machine learning and soft computing are the immerging techniques which are being used in almost all fields of research. Apart from this, they are useful in our day-to-day activities such as education, medical and agriculture. This project explores how Android Apps agricultural services have impacted the farmers in their farming activities.

Mobile apps in the area of agriculture can be the best option to increase countries agriculture production. The inventions in technology in agriculture domain are not getting to the farmers; because of either most of them are illiterates or due to unawareness of the location from where they can have information. Hence, all most of the farmers is being failed in acquisition of the possible production rate.

Today farmers are receiving diverse facts or information about farming like seeds, crop selection, crop process weather, fertilizer, pesticides etc. from various resources which are distributed on many different locations according to its origin, its producers or vendors. The data having different format and may have different specific contents can be heterogeneous in their structure and format. Therefore it is required to develop a system from where the required information is available to the farmer directly.

New opportunities are shaped by smart phone technology for farmers. 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 days of financial crisis, 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 acquisition of data in the field, AgroMobile, Krushiville etc. This paper deals with the analysis of available android based applications which are useful for farm.

Horticulture is the branch of agriculture that deals with the art, science, technology, and business of growing plants. It includes the cultivation of medicinal plants, fruits, vegetables, nuts, seeds, herbs, sprouts, mushrooms, algae, flowers, seaweeds and nonfood crops such as grass and ornamental trees and plants.

## 2. LITRATURE SURVEY

### ➢ Problem Identification

The aim of the system is helpful for user as follows

- By providing maximum information about agriculture and provide the markets rates.
- By providing good and suitable fertilizers suggestion for better crop yield.
- By giving experts advise in order to get more profit and to get solution for their respective problems.
- Giving weather forecasting means it is rainy, warm, or normal for farming.
- Giving information about soil health card, center near your area to know what types of techniques you should apply on your farm for more production.
- Giving updates of governments schemas.

The idea of this project is initiated in our project group when we realized the problems of the farmers such as they don't get the proper information about fertilizers and gov. schemas, market rates etc. Aim of our application is to providing more knowledge to the farmers through this application and giving them inspiration and creating interest for farming. It made more helpful to gather requirements related to this project. We wish our application will help to someone others and the requirement of the user should be completely satisfied.

We gathered all the requirements related to farmers points of view which will be needed to implement in this project. We will discuss about the requirement and create all over plan to implement the application.

After gathering all the information and details we will develop the application as per guidance of our guide. We will study all the languages deeply which will include in this project.

- **Software Requirement Specification**

- **Introduction**
  - **Purpose**

This document is prepared in order to determine a software requirement system for this application. Farmer's real time assistance is an Android application in which user can see the information related to the agriculture such as markets rates, weather forecasting information, schemas provided by the government to the farmers, suggestions for fertilizers. In order to gain and overview about the report firstly, the purpose and the scope of this document will be given and overall description of the system is followed. In addition to this system features such as farmers gets the information where ever they are, gets knowledge about new technology.

- **Scope**

The name of the application real time farmer assistance. This is an android application that use by the user. The main aim of this app is to provide proper information related to their subject (the administrator of this app can upload the information and the gov. schems updates and user can read all the information regarding.

- **Functional Requirements**

Functional requirements describe the inertia between the system and its environment independent of its implementation. The environment includes user, admin and other external system with which the system interacts.

- **Search**

It allows the user to search agri information. Inputs include growing methods ,soil health card laboratories info and crop information. Details of the crop, State Agriculture Departments, Bazar Rates, are fetched from the web. These crop or agricultural details are then displayed on screen.

- **Non Functional Requirements**

  The non-functional requirement elaborates a performance characteristic of the system. Non-functional requirements impose constraints on the design or implementation (such as performance engineering requirements, quality standards, or design constraints).

- **Performance-** The response time is short for the requested service, the application provides user friendly interface.
- **Reliability-** The application is highly realistic and generates all update information correctly.
- **Security-** The application is secured and authentication is provided by proper login.
- **Availability-** The application is available all the time.
- **Portability-** The application is portable on any android device.

- **Hardware Requirements**

  Hardware requirements is most common set of requirements defined by any operating system or software application is the physical computer resources, also known as hardware, A hardware requirements list is often accompanied by a hardware compatibility list (HCL), especially in case of operating systems. An HCL lists tested, compatible, and sometimes incompatible hardware devices for a particular operating system or application. The following sub-sections discuss the various aspects of hardware requirements.

  - Laptop /PC for Android Application Development.
  - Server (Windows 7/8/10 (32-bit or 64-bit)).
  - Android Mobile with minimum android version 4.0
  -

- **Software Requirements**

  Software requirements deal with defining software resource requirements and prerequisites that need to be installed on a computer to provide optimal functioning of an application. These requirements or prerequisites are generally not included in the software installation package and need to be installed separately before the software is installed.

  - 2 GB RAM minimum and 8 GB RAM recommended.
  - 2 GB of available disk space minimum.
  - 4 GB recommended (500 MB for IDE + 1.5 GB for Android SDK and emulator system image)
  - 1200x800 minimum screen resolution.
  - Java Development Kit (JDK) 8
  - For accelerated emulator: 64-bit operating system and Intel® processor with support for Intel® VT-x, Intel® EM64T (Intel® 64), and Execute Disable (XD) Bit functionality
  - Android Studio 2.0
  - Wamp Server Version 2.5
  - MySQL Database version 5.6

## 3. Scope of the Project:

i. Problem Statement

- Farmers do not gets the proper information or updates about current markets rates.
- Farmers unable to understand about crop selection, crop production methods, crop treatment +methods to improve the production.
- Many farmers are unaware of facilities, schemes provided by government.
- Farmers unable to understand which crops they should ripen as suitable to their soil, because balled only those crops which are suitable to your soil.
- To select crop as suitable to the season means in rainy season, or in winter ling season.

ii. Architectural Design Specifications:

- Structure Diagram:

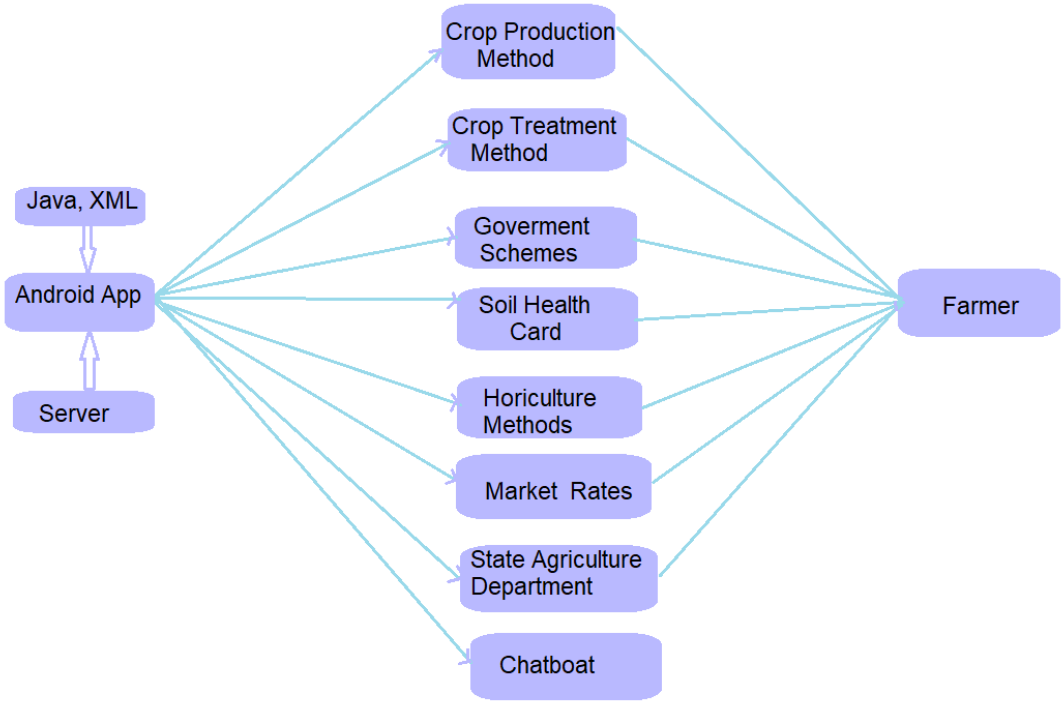



Fig 1. Structure Digram

- **System Design**

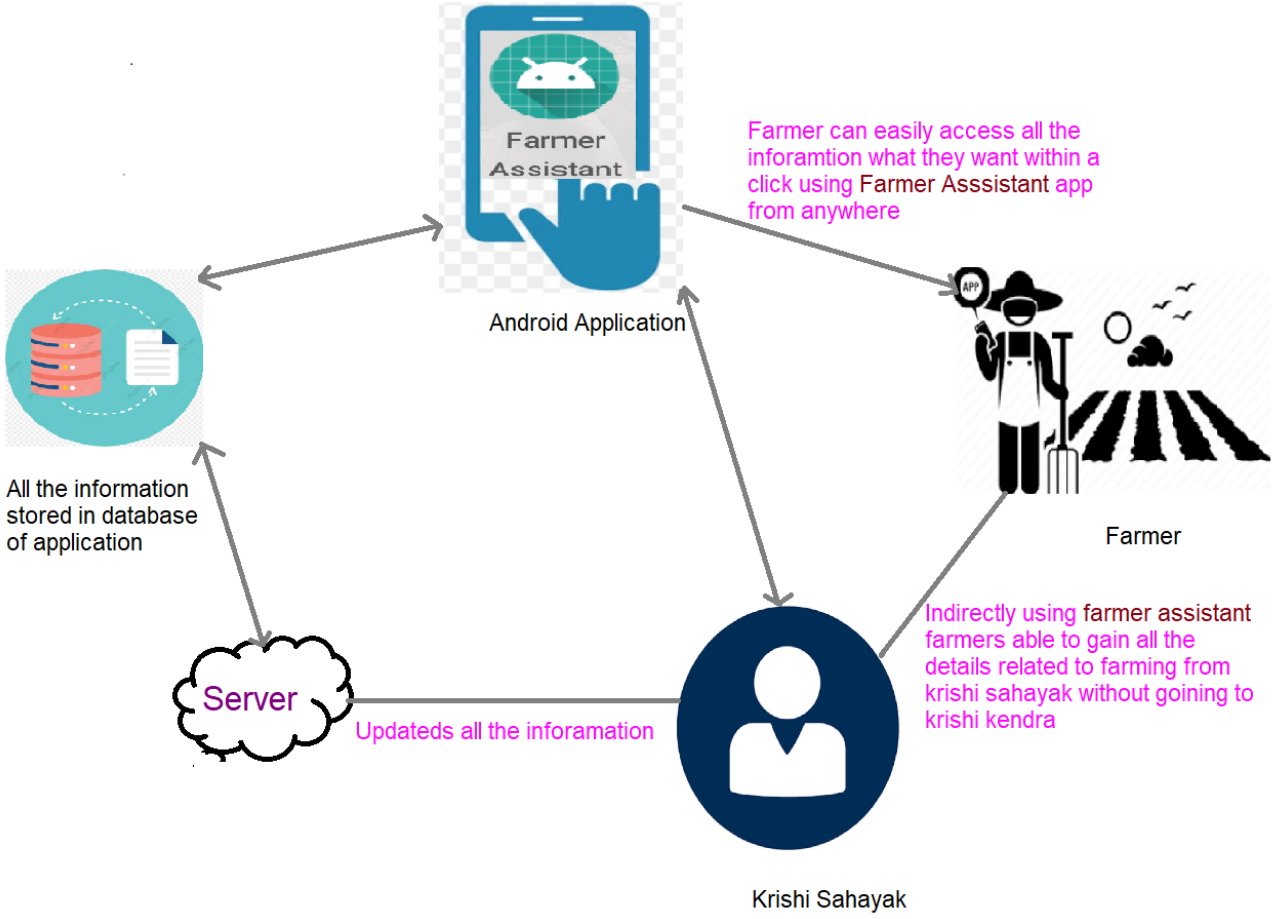



Fig 2. System Diagram

- **UML Diagram**

The unified modelling language is standard language for specifying, visualizing, constricting and documenting the software system and its component. It is a graphical language, which provides vocabulary and set of semantics rules. The UML focuses on conceptual and physical representation of system. It captures the decisions and understanding about system that must be constructed. It is used to understand, design, configure, maintain, and control information about the system.

- **Class Diagram**

A class diagram is graph classifier element connected by their various static Relationships. Note that a class diagram consist of interfaces, packages, relationships, and even instances such as objects and links.

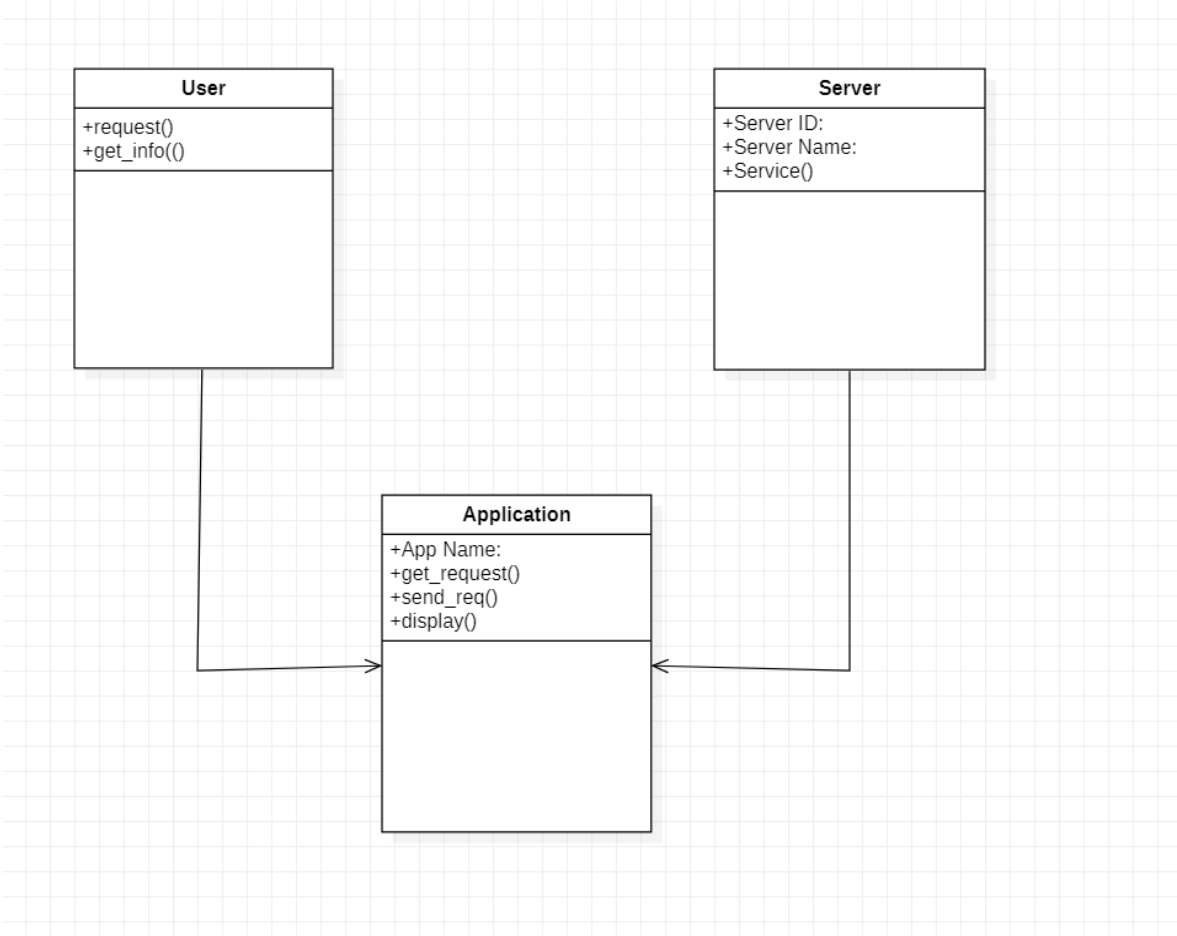



Fig 3. Class Diagram

The above class diagram shows three classes i.e. USER, APPLICATION, and SERVER. User class has attributes. As we as Server class has attributes Application class has attributes like app name. All these class have some functions they are User class has request, search, get info. Server class has services. Application class has get request, send request, display.

- **Use Case Diagram**

The diagram shows a set of use cases and actors and their relationships. This diagram Illustrates the static use case view of a system and is important in organizing and modelling the behavior of a system. The use case system is used to identify the primary Elements and processes that form the system.

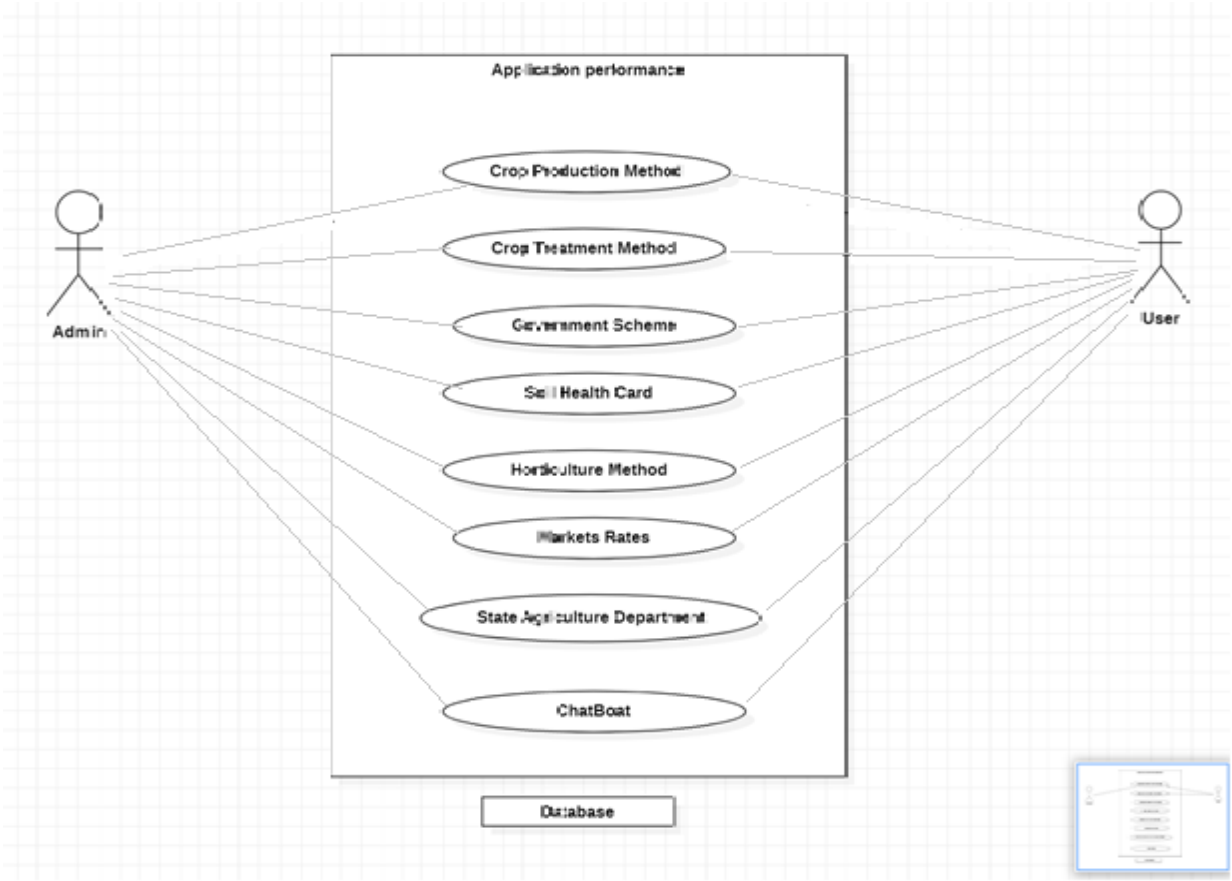



Fig 4. Use Case Diagram

- **Data Flow Diagram**

When it comes to conveying how information data flows through systems (and how that data is transformed in the process), data flow diagrams (DFDs) are the method of choice over technical descriptions for three principal reasons.

- DFDs are easier to understand by technical and nontechnical audiences
- DFDs can provide a high level system overview, complete with boundaries and connections to other systems
- DFDs can provide a detailed representation of system components

DFDs help system designers and others during initial analysis stages visualize a current system or one that may be necessary to meet new requirements. Systems analysts prefer working with DFDs, particularly when they require a clear understanding of the boundary between existing systems and postulated systems. DFDs represent the following:

- External devices sending and receiving data
- Processes that change that data
- Data flows themselves
- Data storage locations

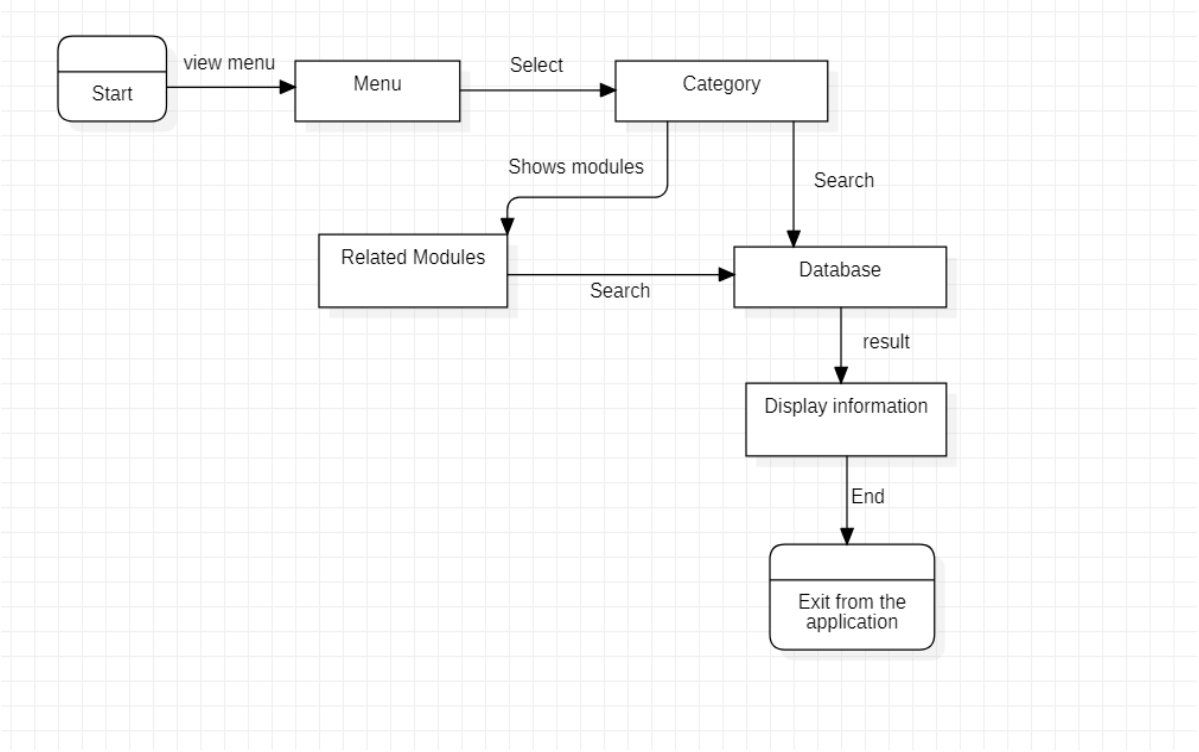



Fig 5. Data Flow Diagram

- **Sequence Diagram**

A sequence diagram shows, as parallel vertical lines (lifelines), different processes or objects that live simultaneously, and as horizontal arrows, the messages exchanged between them, in the order in which they occur. This allows the specification of simple runtime scenario in graphical manner. Sequence diagram is interaction which shows the interaction between participants.

Sequence dig for User:

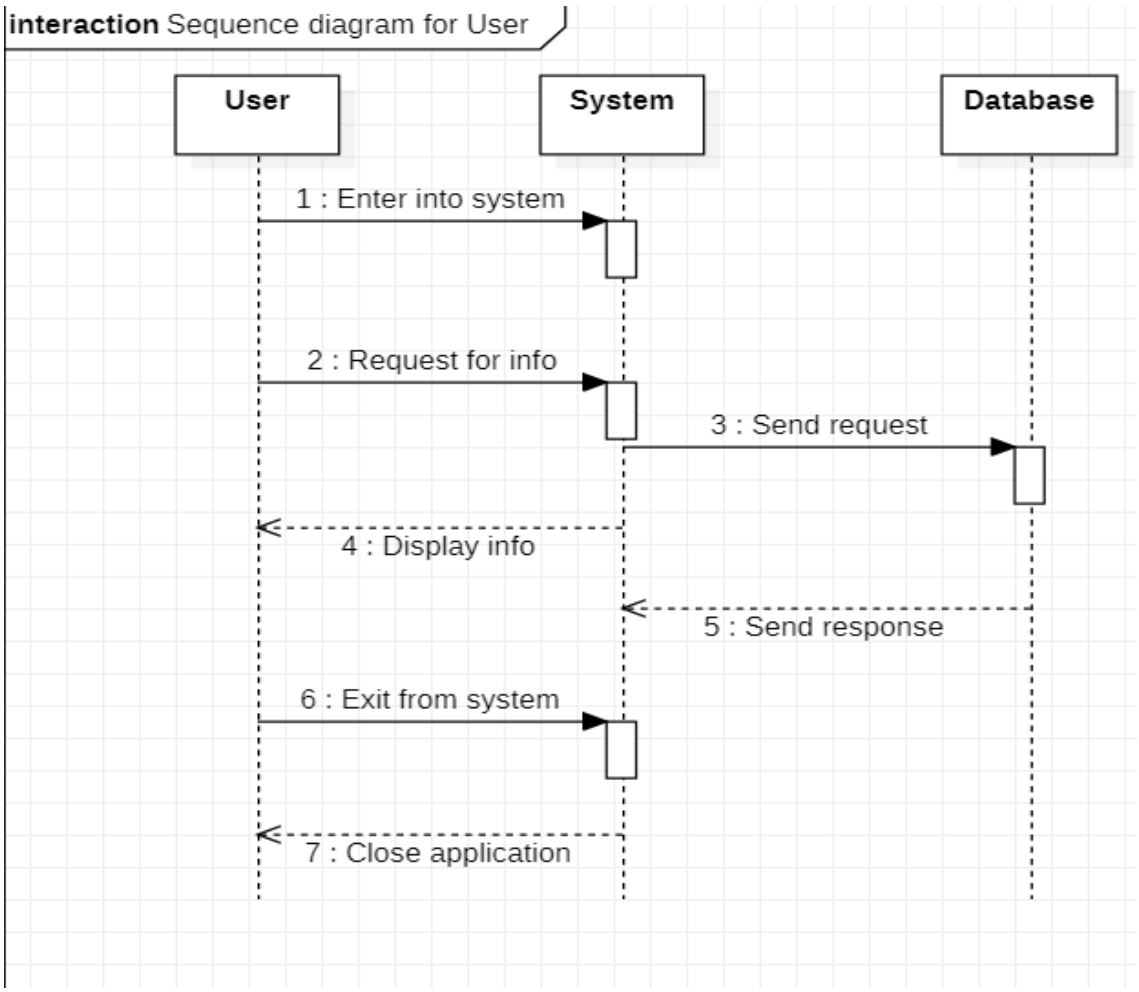



Fig 6. Sequence Diagram for user

Sequence dig. For Admin

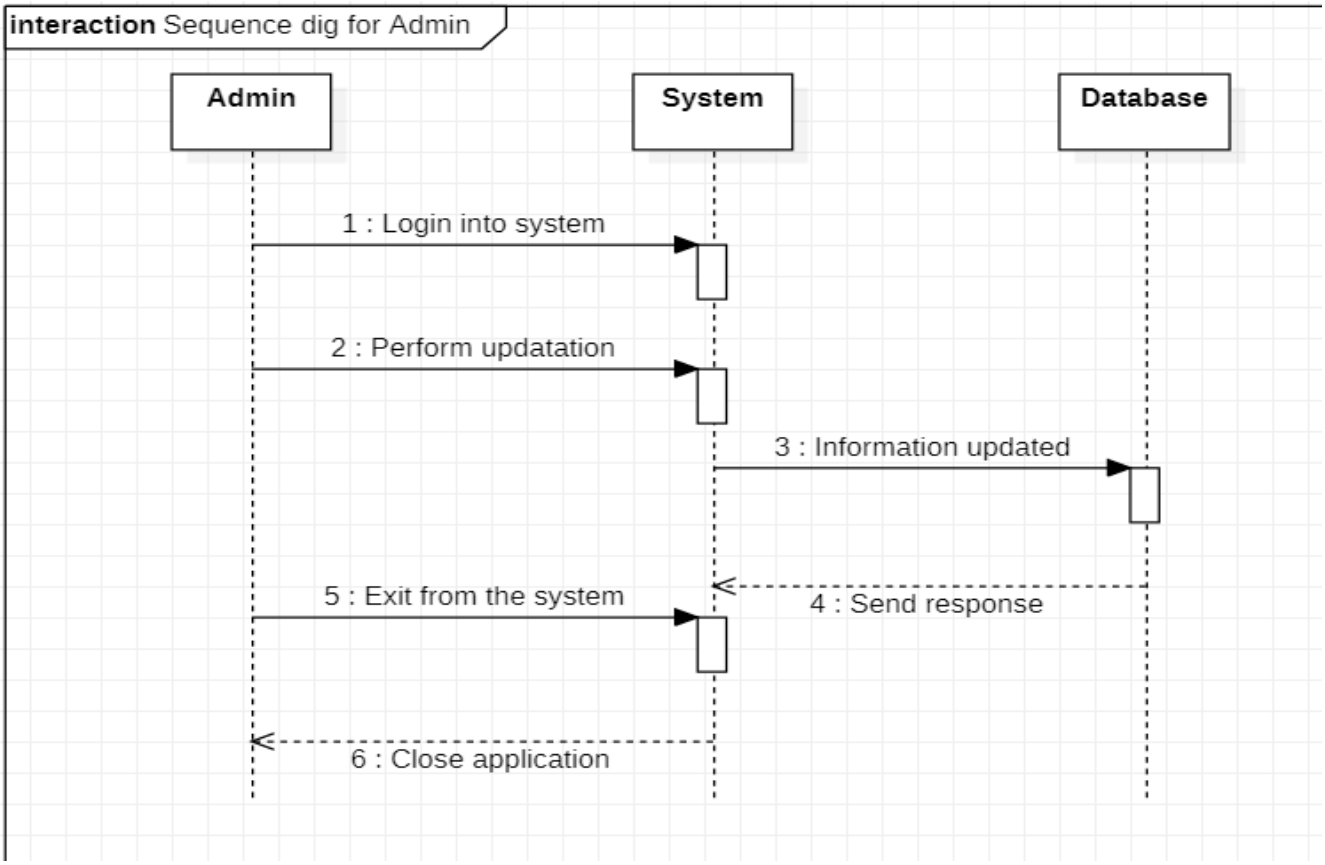



Fig 7. Sequence Diagram for admin

- **Functional description:**
  We have created a Farmer Assistant Android Application in hindi because it is easy to read to everyone. Nowdays everyone uses mobile so we created an application for farmers. Krishi sahayak updates all the information in app using server and app ,it is stored in database.so it is easily and within a click available for each farmer from anywhere and anytime.it is the main advantage because lack of information, losses opportunity. in our application we have provided info about Crop Production method ,Crop Treatment method ,Government schemes ,Soil health card places ,Horticulture Methods, Market Rates, State Agriculture Department.

- **Crop Production method –**

In this module there is information about different types of crop production methods. In this field farmer will get the information about different crops. Which crop they should get in which season. Crop information will be displayed, On one click .because many times farmers didn't get the overall information about crop so its affect crop production.

- **Crop Treatment method-**
  In this module there is information about different types of crop treatment methods. In this field farmer will get the information about which methods they should use for treatment on crops.
- **Government schemes –**
  Government Scheme field is used to display the notice, schemes related to farming. means total information about the schemes provided by government for farmers.it is beneficial for farmers because sometimes natural objection like cyclone, tsunami comes they destroy crops. Then farmer is adversely affected financially.so government schemes really helpful to them

- **Soil health card places –**

In this module by selecting your place it will show soil health card centers near your area to get soil health card. Soil health card will be really helpful for selection of fertilizer, pesticides.

- **Horticulture Methods-**

In this module there is information about different types of Horticulture methods. In this field farmer will get the information about which methods they should use for while taking crops.

- **Market Rates –**
  In this application farmer will get information related to vegetables, fruits. By knowing the current market rates farmer can sell their products according to market rates.

- **State Agriculture Department.** –
  In this module there is information about State Agriculture Department. In this field farmer will get the information given from State Agriculture Department

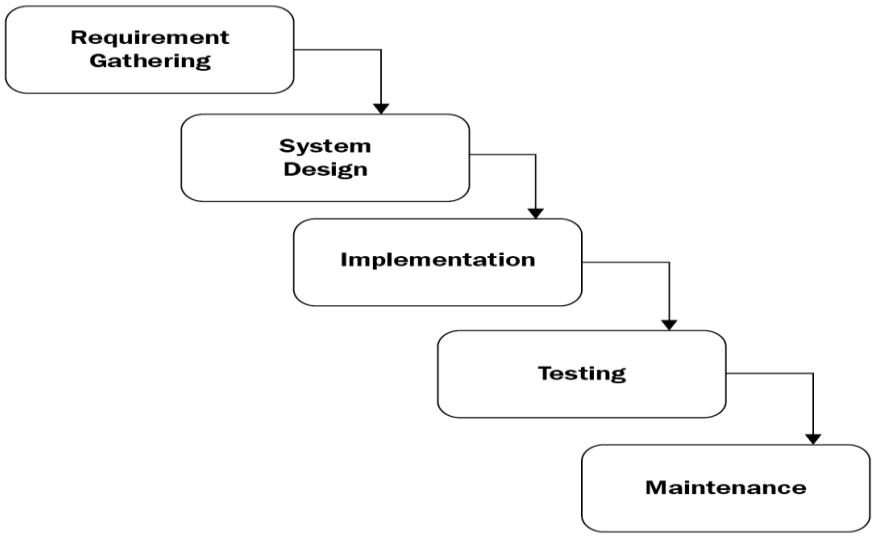
# 4. Methodology

- Life cycle model

We choose water fall model for our project. Because it is simple to understand and use. In a Waterfall model, each phase must be completed before the next phase can begin and there is no overlapping in the phases. Waterfall model is the earliest SDLC approach that was used for software development.

In "The Waterfall" approach, the whole process of software development is divided into separate phases. The outcome of one phase acts as the input for the next phase sequentially. This means that any phase in the development process begins only if the previous phase is complete. The waterfall model is a sequential design process in which progress is seen as flowing steadily downwards (like a waterfall) through the phases of Conception, Initiation, Analysis, Design, Construction, Testing, Production/Implementation and Maintenance.

As **the** Waterfall Model illustrates the software development process in a linear sequential flow; hence it is also referred to as a Linear-Sequential Life Cycle Model.




Sequential Phases in the Waterfall Model-

- Requirements:
  The first phase involves understanding what needs to design and what is its function, purpose, etc. Here, the specifications of the input and output or the final product are studied and marked.
- System Design:
  The requirement specifications from the first phase are studied in this phase and system design is prepared. System Design helps in specifying hardware and system requirements and also helps in defining overall system architecture. The software code to be written in the next stage is created now.
- Implementation:
  With inputs from system design, the system is first developed in small programs called units, which are integrated into the next phase. Each unit is developed and tested for its functionality which is referred to as Unit Testing.
- Integration and Testing:
  All the units developed in the implementation phase are integrated into a system after testing of each unit. The software designed, needs to go through constant software testing to find out if there are any flaw or errors. Testing is done so that the client does not face any problem during the installation of the software.
- Deployment of System:
  Once the functional and non-functional testing is done, the product is deployed in the customer environment or released into the market.

**- Team structure**

| Roll no | Name | Work |
|---|---|---|
| 37 | Pawar Sanika | Coding, Report writing, gathering different tools and work on user interface. |
| 43 | Raut Vaibhavi | Coding, Report writing, gathering different tools and work on user interface. |
| 49 | Shirsath Vaishnavi | Coding, Report writing, collecting information and work on user interface. |
| 54 | Tanpure Pratiksha | Coding, Report writing, collecting information and work on user interface. |

**- Action plan**

| S. no. | Details of Activity | Planned Start Date | Planned End Date | Actual work done by team members |
|---|---|---|---|---|
| 1 | Group Selection | 21/12/2020 | 25/12/2020 | All Group Members |
| 2 | Project Subject Finalization | 14/01/2021 | 19/01/2021 | All Group Members |
| 3 | Creation and preparation of pre-project Activity(Proposal, Planning) | 19/01/2021 | 08/02/2021 | Pawar Sanika, Raut Vaibhavi |
| 4 | Finalization of Synopsis | 08/02/2021 | 09/02/2021 | Shirsath Vaishnavi, Tanpure Pratiksha |
| 5 | Distribution Of activities to Group Members according to resource availability | 09/02/2021 | 28/02/2021 | Tanpure Pratiksha , Pawar Sanika |
| 6 | Finding Information | 12/02/2021 | 17/03/2021 | Raut Vaibhavi, Tanpure Pratiksha |
| 7 | Code Writing | 08/02/2021 | 27/05/2021 | All Group Members |
| 8 | Testing and Debugging | 28/05/2021 | 02/06/2021 | Raut Vaibhavi, Shirsath Vaishnavi |
| 8 | Report Writing | 19/04/2021 | 05/06/2021 | Shirsath Vaishnavi, Pawar Sanika |
| 9 | Submission of project | 22/06/2021 | 22/06/2021 | All Group Members |

**- Development Schedule, Milestones**

| Sr.no | Activity | Scheduled Date |
|---|---|---|
| 1 | Formation of project groups | 25/12/2020 |
| 2 | Allotment of guide | 22/01/2021 |
| 3 | Problem identification or project title submission | 14/01/2021 |
| 4 | Creation of weekly logbook | 15/01/2021 |
| 5 | Creation of portfolio | 17/01/2021 |
| 6 | Industrial survey and literature survey | 19/01/2021 |
| 7 | Project proposal submission | 08/02/2021 |
| 8 | Execution of plan | 15/02/2021 |
| 9 | Submission of final report | 23/06/2021 |
| 10 | Presentation of proposal | 19/02/2021 |
| 11 | Defense | 23/06/2021 |

**- Programming languages & development tools**

1) Java-

Java is one of the best Object Oriented Programming languages in today's world. Its usefulness can be easily seen by the growing number of devices using java to achieve their functionality, from mobiles to PDA‟s to computers and nowadays even in space vehicles. Java is everywhere. So let's take a preview of java and see the reasons for its popularity with programmers.

Although the fundamental forces that necessitated the invention of Java are portability and security, other factors also played an important role in moulding the final form of the language. The key considerations were summed up the Java team in the following list of buzzwords

- Simple
- Secure
- Portable
- Object-oriented
- Robust
- Multithreaded
- Architectural-neutral
- High performance
- Distributed
- Dynamic

2) MySQL-

MySQL is a relational database management system (RDBMS), and ships with no GUI tools to administer MySQL database or manage data contained within the databases.

3) Android-

Android is a Linux-based, open source mobile operating system developed by Open Handset Alliance led by Google to develop apps for Android devices. To start with user causes a set of tools that are included in the Android SDK. Once it has been downloaded and installed the SDK, one can access these tools right from Eclipse IDE, through the ADT plug-in, or from the command line. Developing with Eclipse is the preferred method because it can directly invoke the tools that are needed while developing applications.
The basic steps for developing applications are shown in Figure the development steps encompass four development phases, which include:

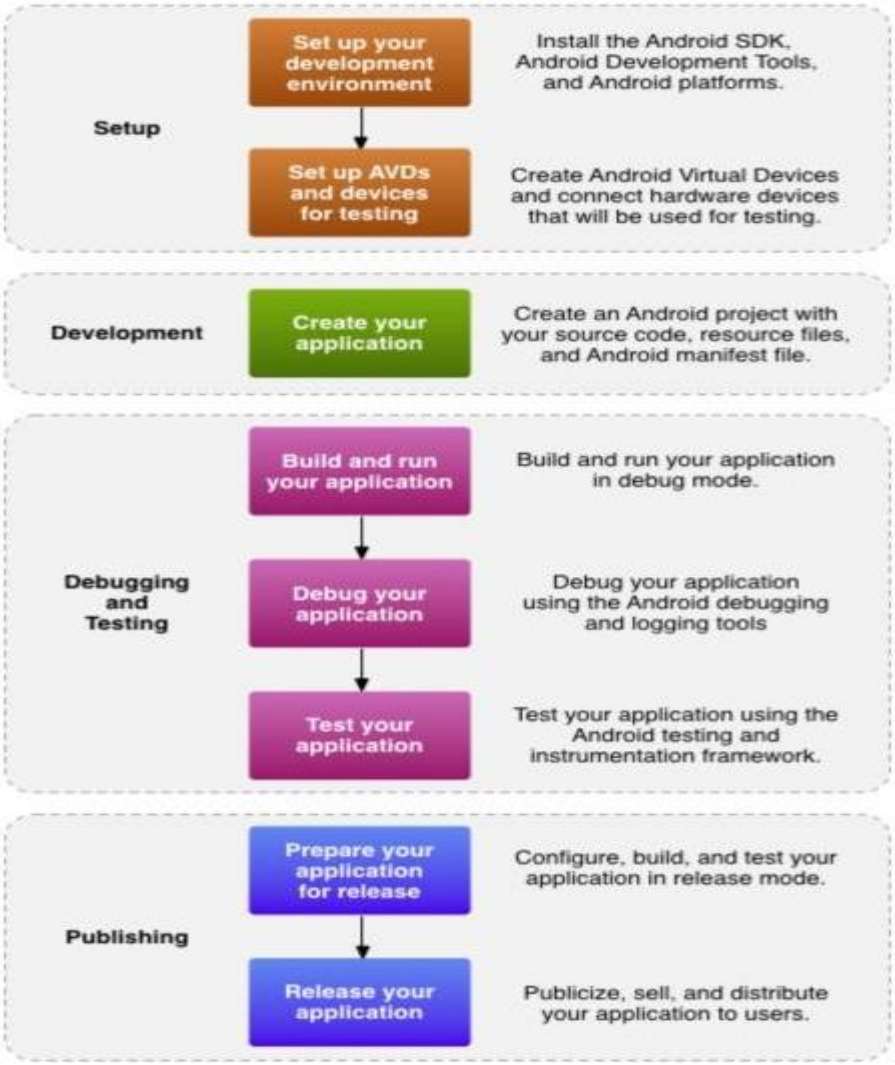
Setup:

During this phase one can install and set up development environment. Also creates Android Virtual Devices (AVDs) and connect hardware devices, on which one can install this applications.
Development:

During this phase one has to set up and develop android project, which contains all of the source code, resource files for this application.
Debugging and Testing:

During this phase one can build android project into a debug gable. Apk package that user can install and run on the emulator.
Publishing:

During this phase configure and build android application for releaseand distribute this application to users.



### 4.1 Steps for Application Development

Android Studio is the official Integrated Development Environment (IDE) for android platform development. It contains a base workspace and an extensible plug-in system for customizing the environment. Written mostly in java, Android Studio can be used to develop application in Java. The Android Studio Software Development Kit (SDK), which include the Java development. Users can extend its abilities by installing plug-ins written for Android Studio platforms such as development toolkits for other programming languages and can write and can contribute their own plug-in modules.

## 4.2 SDK plug-in for Android Studio

Software Development Kit (SDK) is a plug-in for the Android Studio IDE that is designed to give us a powerful, integrated environment in which to build Android applications.

SDK extends the capabilities of Android Studio to let us quickly set up new Android projects, create an application UI, add packages based on the Android Framework. Developing in Android Studio with SDK is highly recommended and is the fastest way to get started. With the guided project setup it provides, as well as tools integration, custom XML editors, and debug output pane, SDK gives us an incredible boost in developing Android application.

Following steps are used to download and install the ADT plug-in:

- Start Eclipse, and then select Help à Install New Software.
- Click Add (in the top-right corner)

## 4.3 Platforms

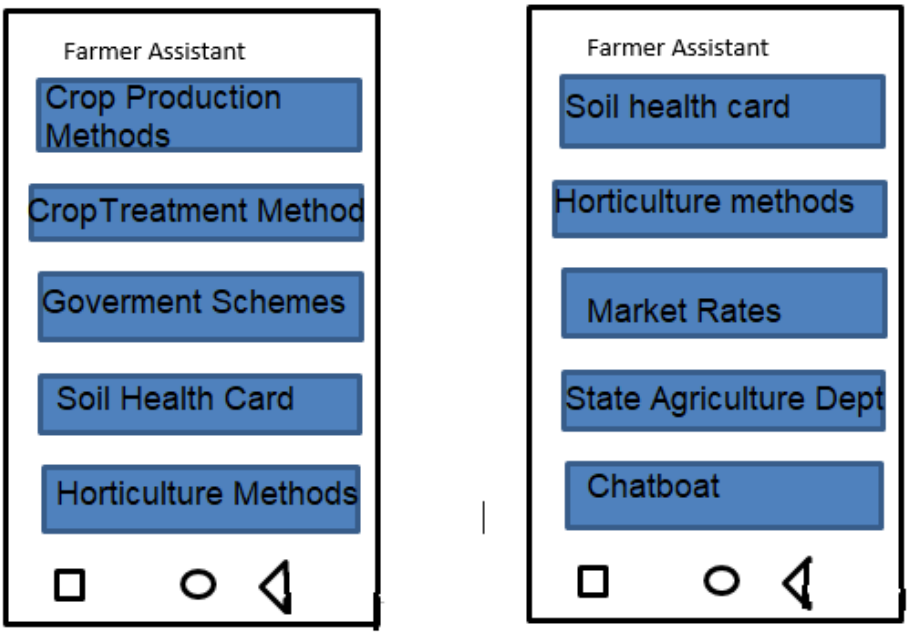
The platforms used for this project are:

Front End: Android and HTML

Back End: : Android and XML.

## 5. Details of Design, Working and Process

### -design




1. When user click on Crop Production Methods then different production methods appear on screen by choosing particular method information regarding them will appear on screen.

2. When user click on Crop treatment Methods then what treatment they should follow on their choose crop information will appear on screen.

3. When user click on Government Schemes then different schemes information will appear on screen it will really helpful to farmer.

4. When user click on Soil health card user have to select their location then their nearby soil health card centers names will appear on screen.

5. When user click on horticulture Methods then different production methods appear on screen by choosing particular method information regarding them will appear on screen.it will really knowledgeable for new farmers.

6. When user click on Market Rates then user have to select their district. Then as per the District market Rates current price of vegetables, fruits will appear on screen it will really helpful to farmer.

7. when user click on State Agriculture department then information will appear on screen it will really helpful to farmer.

8. We have tried to implement a chat boat in our application.

**-Module**

- **Functional description:**
  We have created a Farmer Assistant Android Application in Hindi because it is easy to read to everyone. Nowadays everyone uses mobile so we created an application for farmers. Krishi sahayak updates all the information in app using server and app ,it is stored in database.so it is easily and within a click available for each farmer from anywhere and anytime.it is the main advantage because lack of information, losses opportunity. in our application we have provided info about Crop Production method ,Crop Treatment method ,Government schemes ,Soil health card places ,Horticulture Methods, Market Rates, State Agriculture Department.

- **Crop Production method –**

In this module there is information about different types of crop production methods. In this field farmer will get the information about different crops. Which crop they should get in which season. Crop information will be displayed, On one click .because many times farmers didn't get the overall information about crop so its affect crop production.

- **Crop Treatment method-**
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- **Soil health card places –**

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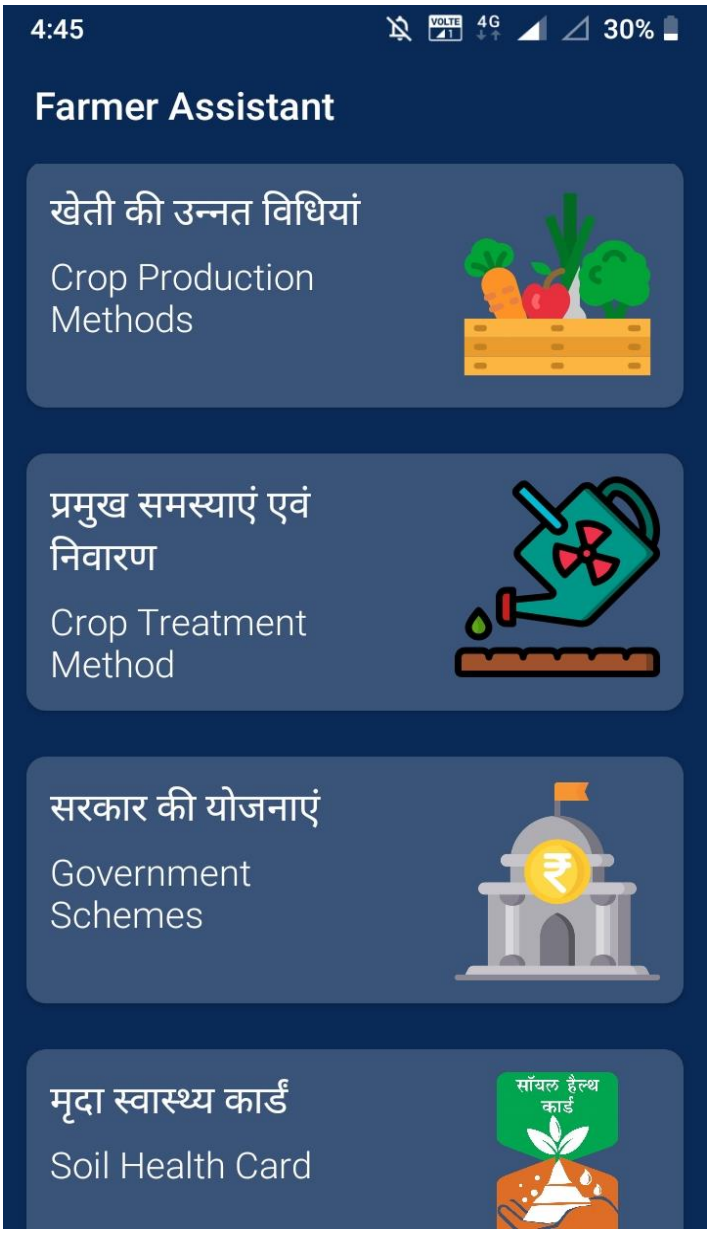
- **Market Rates –**
  In this application farmer will get information related to vegetables, fruits. By knowing the current market rates farmer can sell their products according to market rates.
- **State Agriculture Department.** –

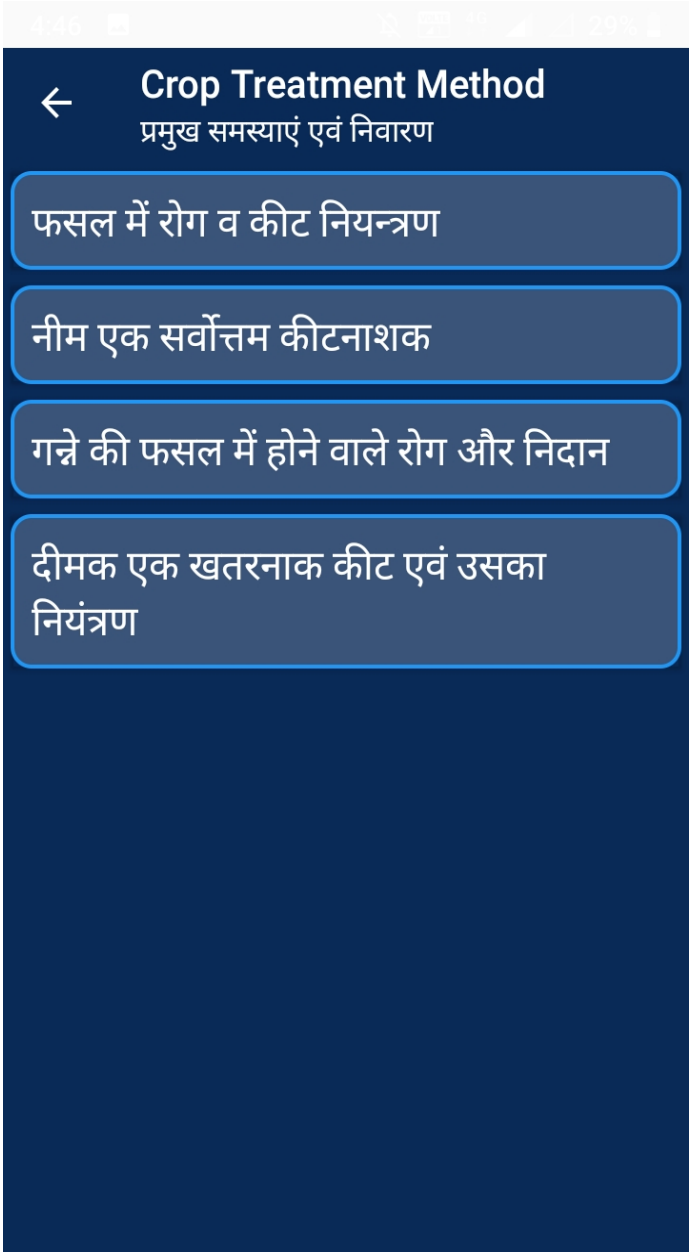
In this module there is information about State Agriculture Department. In this field farmer will get the information given from State Agriculture Department.

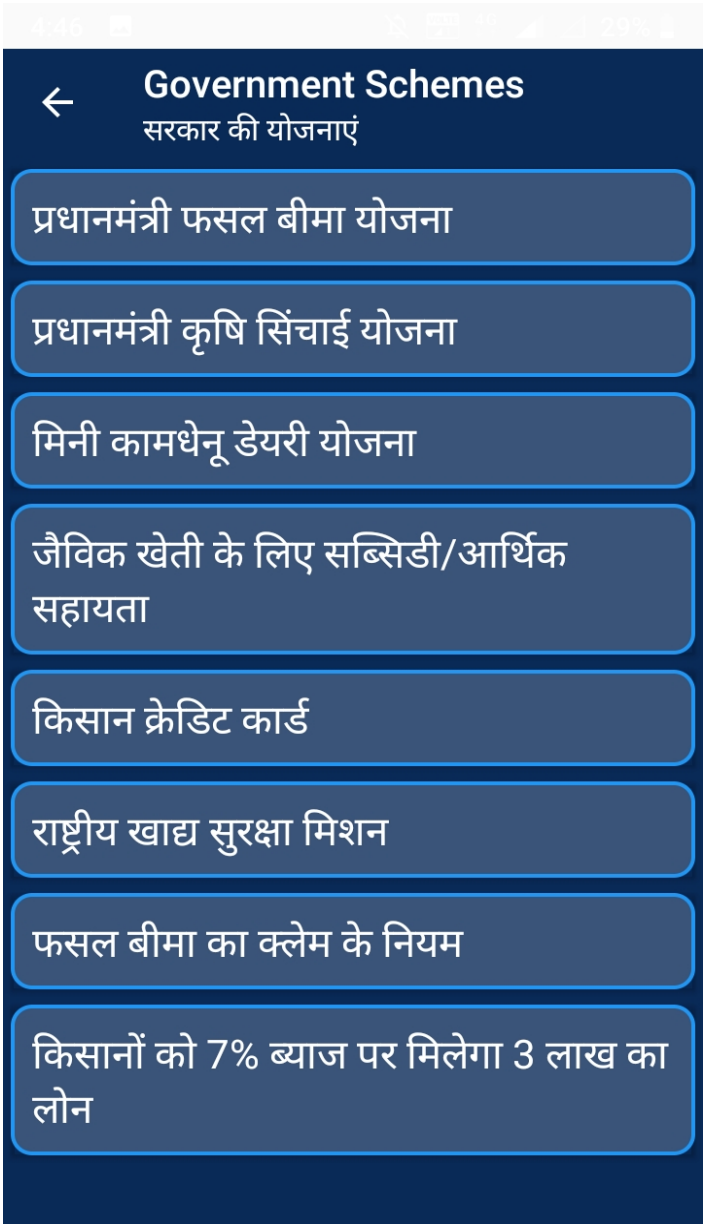
- **Chat Boat**
  Chat boat is a live chatting with the application. We try to implement chat boat in our application, but it is in development phase. We will try to make more effective for user in future.

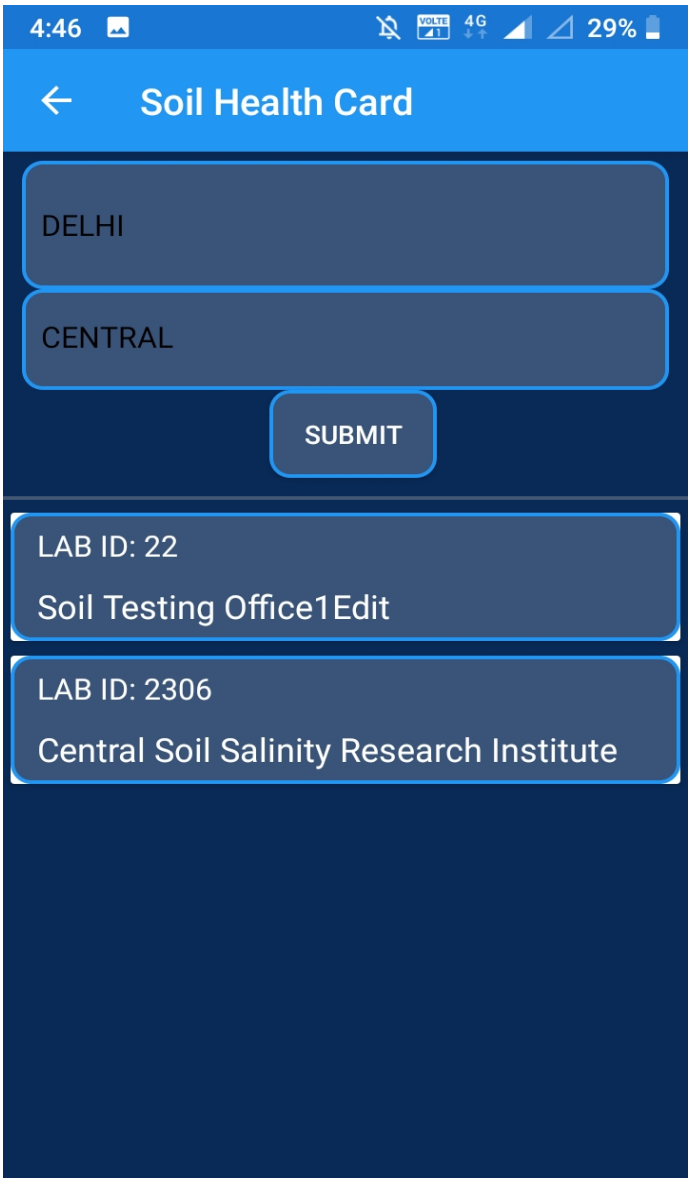
## 6. Result and Application

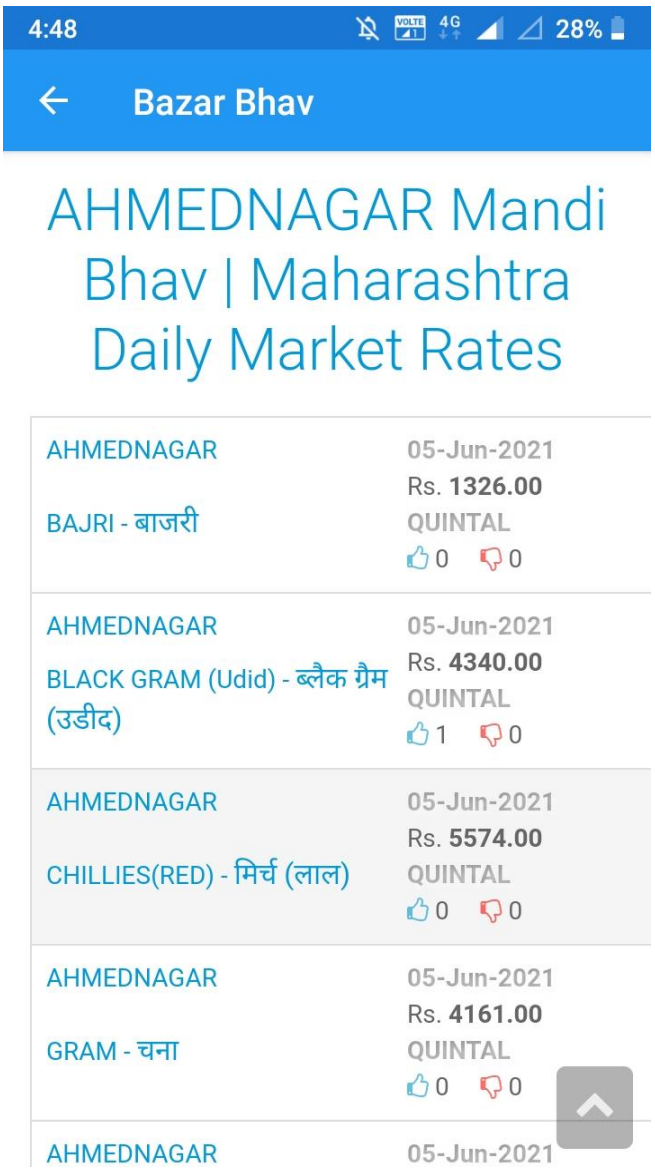




Crop Production Methods
खेती की उन्नत विधियां
गेंहू की उन्नत खेती
Wheat Production Methods
धान अर्थात चावल की खेती
Paddy Production Methods
अरहर की खेती
Toor Production Methods


Crop Treatment Method
प्रमुख समस्याएं एवं निवारण
फसल में रोग व कीट नियन्त्रण
नीम एक सर्वोत्तम कीटनाशक
गन्ने की फसल में होने वाले रोग और निदान
दीमक एक खतरनाक कीट एवं उसका नियंत्रण

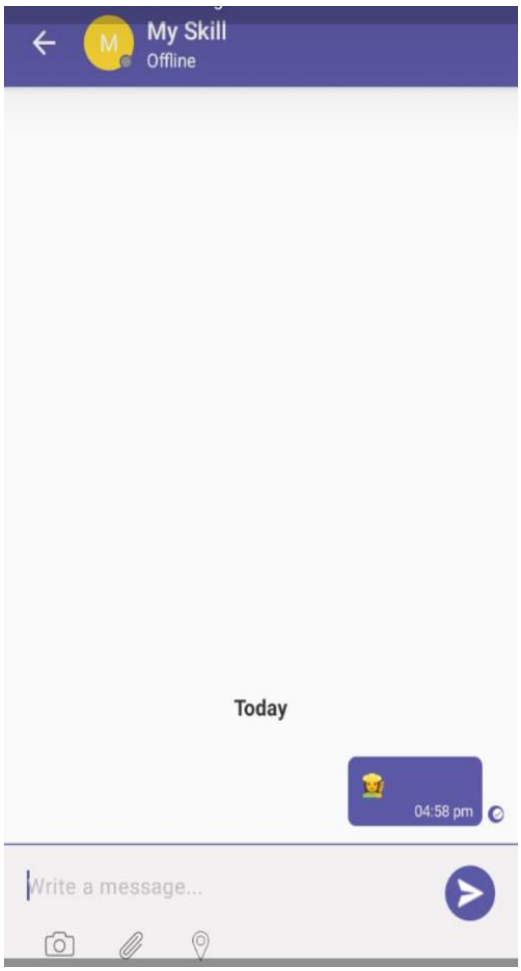

Government Schemes
सरकार की योजनाएं
प्रधानमंत्री फसल बीमा योजना
प्रधानमंत्री कृषि सिंचाई योजना
मिनी कामधेनू डेयरी योजना
जैविक खेती के लिए सब्सिडी/आर्थिक सहायता
किसान क्रेडिट कार्ड
राष्ट्रीय खाद्य सुरक्षा मिशन
फसल बीमा का क्लेम के नियम
किसानों को 7% ब्याज पर मिलेगा 3 लाख का लोन


4:46
29%
Soil Health Card
DELHI
CENTRAL
SUBMIT
LAB ID: 22
Soil Testing Office1Edit
LAB ID: 2306
Central Soil Salinity Research Institute


4:48
28%
Bazar Bhav
AHMEDNAGAR Mandi Bhav | Maharashtra Daily Market Rates
AHMEDNAGAR
BAJRI - बाजरी
05-Jun-2021
Rs. 1326.00
QUINTAL
0 0
AHMEDNAGAR
BLACK GRAM (Udid) - ब्लैक ग्रैम (उडीद)
05-Jun-2021
Rs. 4340.00
QUINTAL
1 0
AHMEDNAGAR
CHILLIES(RED) - मिर्च (लाल)
05-Jun-2021
Rs. 5574.00
QUINTAL
0 0
AHMEDNAGAR
GRAM - चना
05-Jun-2021
Rs. 4161.00
QUINTAL
0 0
AHMEDNAGAR
05-Jun-2021


4:47
29%
Horticulture Crops
Mango
Banana


State Agriculture Department
A & N ISLANDS
ANDHRA PRADESH
ARUNACHAL PRADESH
ASSAM
BIHAR
CHANDIGARH
CHHATTISGARH
D & N HAVELI
DELHI


My Skill
Offline
Today
04:58 pm
Write a message...

## 7. Conclusion and Future Scope

- **CONCLUSION**

The proposed system provides the following features:

- This application can be easily accessible for farmers. They will get all necessary information require for farming on one platform.
- Farmers will know about new technologies and schemes which will be very profitable and benificial for them.
- It will save lots of time, of going to the agro shop and enquiring about the farming. As in our application all the data is available.
- It will lead for agriculture development of country.
- Gives information about different types of crops.

- **SCOPE FOR FUTURE WORK**

This expert system or interface will need to be researched further for implementation. Hence future of this task lies in developing the actual system schema and adding extra new functionalities which may be implementation specific.. In future, the scope of this system or interface can be increased by adding extra various.

- In future we will modify soil moisture sensor.
- We will try to implement chatbboat more effective for farmer.
- We will add some new features too as necessary like people can buy vegetables, fruit directly from farmers.

## 8. References and Bibliography

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