



**Schemes for Farmers**

Case Study

**Farm-Scheme**

Problem statement:

Farm-Scheme is a project in Agriculture domain. It is a Java Web-based application which gives an idea to the farmers how to use e-farming to sell their products. Farmers will get new ideas to improve their productivity, they can buy and sell their products online from different cities through the process of bidding.

Farmers can use this facility and avail benefits of different schemes available which will increase their profit.

Objectives

* To encourage farmers to adopt innovative and modern agricultural practices.
* To ensure flow of credit to the agriculture sector.

USERS:

There are three types of users in the system:

* Admin
* Farmer
* Bidder

Module 1- Bidding

This module will focus on bidding of crops by bidders in different cities. Registered users will have access to the online market place where individuals can request their crops for auction and potential buyers can make bids.

A seller will request for a crop auction, specifying details of the crops including quantity. A seller can see current bids and log of all crops sold.

Bidder will specify the amount they plan to invest for the bidding process, will be able to see the crop hosted for selling.

Admin will control the entire bidding process, approve the crop to be sold and the final bid.

Module 2 - FasalBimaYojna:

* To provide insurance coverage and financial support to the farmers in the event of failure of any of the notified crop because of natural calamities, pests & diseases.
* To stabilize the income of farmers to ensure their continuance in farming.
* There will be a uniform premium of only 2% to be paid by farmers for all Kharif crops and 1.5% for all Rabi crops. In case of annual commercial and horticultural crops, the premium to be paid by farmers will be only 5%. The premium rates to be paid by farmers are very low and balance premium will be paid by the Government to provide full insured amount to the farmers against crop loss on account of natural calamities.

**Schemes for Farmer**

The Government of India provides various schemes for farmers, but due to lack of awareness and miscommunication, farmers do not avail these benefits. Hence, we try to integrate some of the schemes like Fasal Bima Yojna and Bidding of Crops scheme.

We are implementing a system which is automated and helps to reduce the burden on farmers as well as the system. We are providing an online means to apply and claim insurance which will help the system to work efficiently and enhance smooth handling of records.

The bidding module will enable the farmer to place crops for auction and receive best price from auction which stabilizes the farmer’s income as well as eliminates the stress of physical sale of crops in the market. We have implemented two modules which will help the farmer to make use of technology and reduce the efforts for selling the crops.

**MODULE DESCRIPTION**

1. **Home Module:**

This is the index page for all users. It has a horizontal menu consisting of the following tabs: Home, About US, Login, Contact US.

* 1. About Us:

This page displays the information about the system to all users.

1.3Login:

Login module asks the user to enter credentials to log into the system. Only authenticated users can log into the system. If a user is logging in for the first time, then user must register themselves.

This module has controls-Email, Password, Forgot Password Link, Login button, Link for registration.

Users can avail the Forgot password facility in the event that the user forgets the password. Once the link has been clicked, the user will be asked to input the email, and the credentials will be mailed to the user.

* 1. Contact Us:

This page allows the user to contact the system users(Admin) by specifying necessary message. The system reaches the user identified by email id entered by user in contact form.

1. **Registration Module:**

When user clicks on registration link, system will ask user for type of user. Whether user is farmer or bidder?

Once user selects the type, appropriate registration form will open and ask the user to enter data to register themselves into the system.

Fields for registration module will be different for each user.

1. **Welcome Module**

Once the authorized user logs in, Welcome module will be displayed to user according to type of user.

**3.1** Farmer Welcome module consist of two links as shown below:

* Bidding-

This module plays an important role, as many farmers don’t get a proper price for their product. The bidding module provides a platform for Farmers and Traders to sell and purchase crops.

An authenticated farmer can request for crop sell by putting crop details like crop name, crop type, variety and quantity in the system for bidding.

The admin will review the request and take necessary action after proper quality check has been done.

* Insurance:

Insurance module allows a farmer to apply for insurance policies to insure crops from damages due to any calamities.

### The sub modules are as follows:

* **Apply for Insurance:**

1. To apply for insurance, farmer need to fill online form with proper valid credentials along with the sum of insurance he can avail through the scheme with proper bank detail.
2. If mandatory fields are not filled the error message will be generated to tell the farmer to enter all required fields.
3. Once all the data is filled by farmer system will able to calculate premium amount to be pay by user.

### Insurance Calculator:

1. Insurance calculator will calculate the insurance based on various parameters.
2. Insurance is calculated based on the type of season, zone type and type of crop and area in hectare.
3. Calculate button will show entire details about the policy before option for applying to policy. Once user confirms to apply (user clicks on Apply button) then data will be fed into database.

* **Claim Insurance:**

1. To claim insurance, farmer needs to fill a form with the credentials like policy number, scheme and cause for damage.
2. If mandatory fields are not filled error message will be generated to tell the farmer to enter all required fields.
3. Once the form is filled with all fields admin will process the information and take necessary action including notifying the farmer about progress of claim request.
   1. BidderWelcome module consist of bidding module:

This module allows the bidder to see the current bidding details on their screen and system allows user to bid any crop by clicking on bid button.

Once the user bid for any crop the bidding details will be displayed to user and data will be filled into the database.

**3.3** Admin Welcome module

This module allows admin to see all bidders and farmers in the system. Admin controls the entire bidding process and approves bids.

Roles to be played by Admin:

* Grant user to access into the system by validating certain documents which are provided by user at the time of registration.
* Permit farmer to sell their quality crop.
* Change the status of bidding details once a bid is made.
* Permit farmer to claim their insurance after validation of documents submitted for cause of crop loss.

**System Work-Flow**

|  |
| --- |
| **Contract Management - II** |

**1. Index Page Flow**

1. Intially the user visits the index page. The user will If the user is new ,he has to register for the portal after that he will be provided with a login username and password.

Login

About Us

Home

LOGO-(Portal\_Name)

Contact US

Home Frame

About Us Frame

Contact US Frame

Footer

2) Login

LOGIN

Email

Password 

Forgot Password?

New User? Register Here

Are you a Farmer or Bidder?

3) Registration Form

3.1) Bidder Registration

RESET

REGISTER

Address Line 1

Address Line 2

Personal Details

Full Name 

Contact No. 

E-mail Id 

Address Details





City 

State 

Pin code 

Bank Details

Account No. 

IFSC Code 

Document Upload

Aadhaar 

PAN 

Trader License 

Password 

Confirm Password 

3.2) Farmer Registration

Personal Details

Full Name 

Contact No. 

E-mail Id 

Address Details





City 

State 

Pin code 

Land Details

Area 

Address 

Pin Code 

Bank Details

Account No. 

IFSC Code 

Document Upload

Aadhaar 

PAN 

Certificate 

Password 

Confirm Password 

RESET

REGISTER

4) After Login: Farmer Page

Logout

Insurance

Bidding

PLACE REQUEST

Crop Type 

Crop Name 

Fertilizer Type 

Quantity 

Soil pH Certificate 

Place Sell Request

View Sold Crop History

View Marketplace

4.2) View Sold History (Table Display)

Crop Type \_\_\_\_\_\_\_\_\_\_\_

Crop Name \_\_\_\_\_\_\_\_\_\_\_

Base price \_\_\_\_\_\_\_\_\_\_\_

Current Bid Amount

Previous bids

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|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Date | Crop Name | Quantity | MSP | Sold Price | Total Price |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

4.3) View Marketplace



5) Insurance

Bidding Insurance Logout

Apply for a policy

Claim Insurance

Place Sell Request

View Sold Crop History

View Marketplace

5.1) Insurance Application (Form):

Season 

Year 

Crop 

Sum Insured 

Area 

CALCULATEE

RESET

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Insurance Company | Sum Insured (per Hectare) | Share Premium | Premium Amount | Crop Name | Area | Sum insured |
|  |  |  |  |  |  |  |

APPLY

5.2) Claim Form:

Particulars of Insuree

Policy No . Insurance Company 

Name of Insuree  Sum Insured 

Details of Cause for Loss

Cause of Loss  Date of Loss 

Supporting Documents 

SUBMIT

6) Bidder Welcome Page



CONFIRM BID

|  |  |  |  |
| --- | --- | --- | --- |
| Crop Type | Crop Name | Base Price | Current Bid |
|  |  |  |  |

Bid Amount 