

# **PROJECT TITLE: E – AGRICULTURE**

## **1. ABSTRACT**

The main objective of this project is building a website which will help Indian farmers to make the effective cultivation by providing information crop and make a path to earn more money from Indian villages by sell their products to different cities online and by registering their crops to get their suitable price for their crops. They can open this site and register with it and sell and buy their products and register their crops online etc.

## **2. INTRODUCTION:**

In India agriculture is the main source of employment over 58% of India's population. E-Agriculture is one of the key part of digital India. It is designed to support the development and exchange of localized information and services to make farming more profitable and sustainable (socially, economically, and environmentally) to deliver good food for all. This helps farmers to increase their profits and can empower rural farmers with good awareness by accessing equitable markets and rural business to offer value added services. It also includes several managements that helps E-Agriculture such as soil, seed, fertilizer, pest, harvest managements to create healthy farming. It is also a mission mode project

## **3. OBJECTIVES:**

- The website “E-Agriculture” is for farmers.
- This website contains the information about different types of effective farming and irrigation techniques.

- This website give information on crop management to satisfy the demand of particular crop to reduce crop price.
- Through this website the government can buy product directly from farmers.
- Through this website the farmers can buy seeds, fertilizers directly
- The farmers can have a deal with government for certain cost.
- So farmer can have a lot of profits.

#### **4. Hardware and Software specifications:**

Software Requirements:

Operating System	: Windows 10,
Technology	: Net Beans
Database	: MySQL

Hardware Requirements:

Intel Pentium  
 Processor speed-1.2 GHz or above  
 1 GB RAM minimum  
 1024 GB Hard Disk Space

#### **5. Existing system:**

There is no computerized system for the farmer to register for the crops, to buy seeds, fertilizers, to sell their product. Currently, the farmer grow the crops what they wish, by which all the farmers goes to same crop and grow the same crops will leads to demand for other crops and increase in crop prices. And farmers goes to nearest market handover his product to a particular agent, agent ask the farmer to visit the market after a specific time to collect the cash earned out of the sold product. Agent sells the product to another agent or a dealer at the cost of that market. Every Agent tries to cuts his commission out of that. There is no way for farmer to know about the deal and the exact amount at which their product was sold. There is no transparency. No facility is present for the farmers to know the product rates at different markets where they can sell their products for achieving

high profits. Many times, farmers are not even aware of the schemes and compensation provided by government. In spite of all the opportunities banging the doors the farmers are not able to benefit out of those. Current system does not provide the way of e-learning for farmer that will provide the knowledge of new techniques in farming. So he doesn't get the maximum profit through the current system.

## **6. Proposed System:**

We are going to develop E-Agriculture application that includes registration of crop which leads to balance of crops another one feature like buying the products for crops like seed, fertilizers. Selling the crop which help to farmer to sell without agent and get fruitful result. Our main goal is to help the farmer which is in trouble and give him to user friendly application

## **7. Modules Description:**

### **Login:**

This helps the farmer to login by which they can know about soil information Crops suitable for different region and government schemes and register the crops which they want to produce.

### **New Register:**

If farmer want to login he has to first register by clicking new register and Filling the details

### **Home:**

Once the farmer has logged in he can register the crops in their region, buy products, Sell products, Know crop information, soil information, schemes given by the government , update details, available in home

### **Crop Management:**

It has all information about crop suitable for different region, soil information, and all crop Information, scheme of the government

**Crop Registration:**

It helps the farmer to register for the crops what they want to produce in their region. Which leads to balancing of crops and certainty in price of crops

**Buy Products (seeds, fertilizers):**

It helps the farmer to buy fertilizers and seeds from the government without and agents between

**Update details:**

It helps the farmer to update to their details which they have filled in new registration

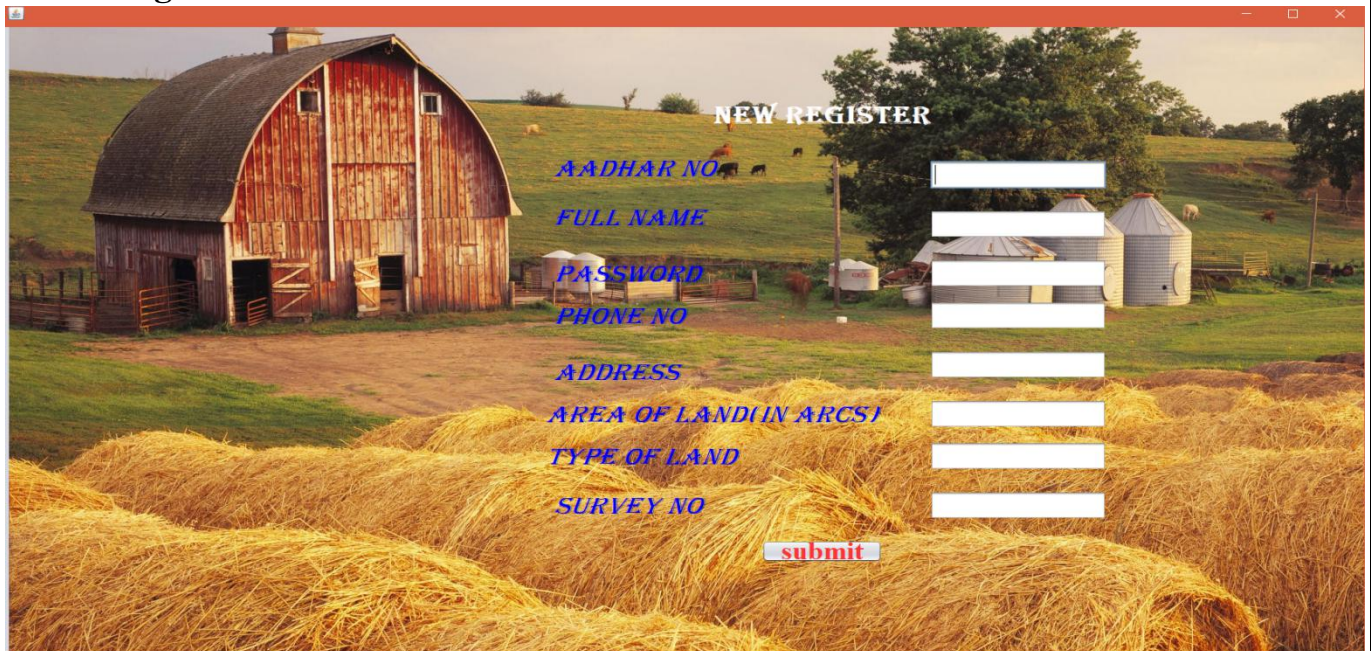
## 8.SCREENSHOTS

### 1. Login:



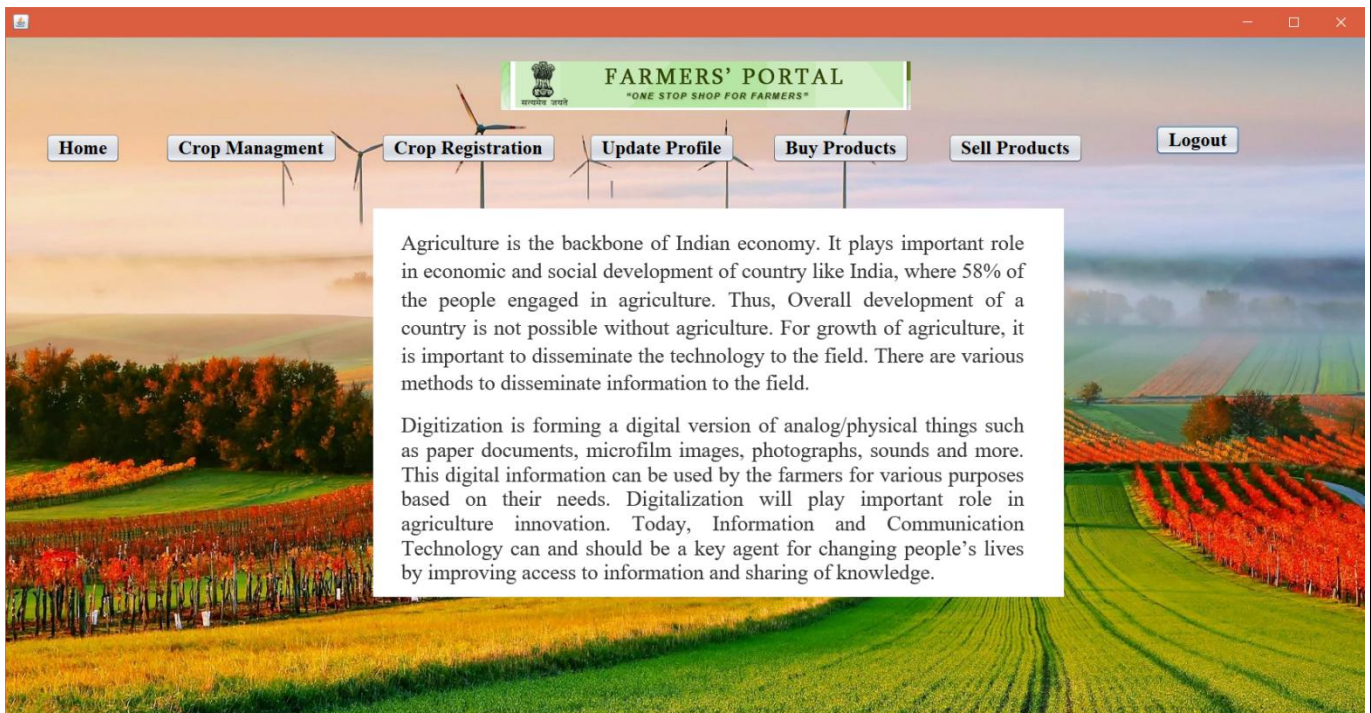


## 2. New register:



The screenshot shows a web browser window with a red header bar. The background of the page is a scenic farm image featuring a large wooden barn, rolling green hills, and several haystacks in the foreground. The text 'NEW REGISTER' is displayed in white at the top right. Below it, the following labels are shown in blue, italicized font: 'AADHAR NO', 'FULL NAME', 'PASSWORD', 'PHONE NO', 'ADDRESS', 'AREA OF LAND(IN ARCS)', 'TYPE OF LAND', and 'SURVEY NO'. Each label is followed by a white rectangular input field. At the bottom right, there is a red button with the word 'submit' in white text.

## 3. Home:



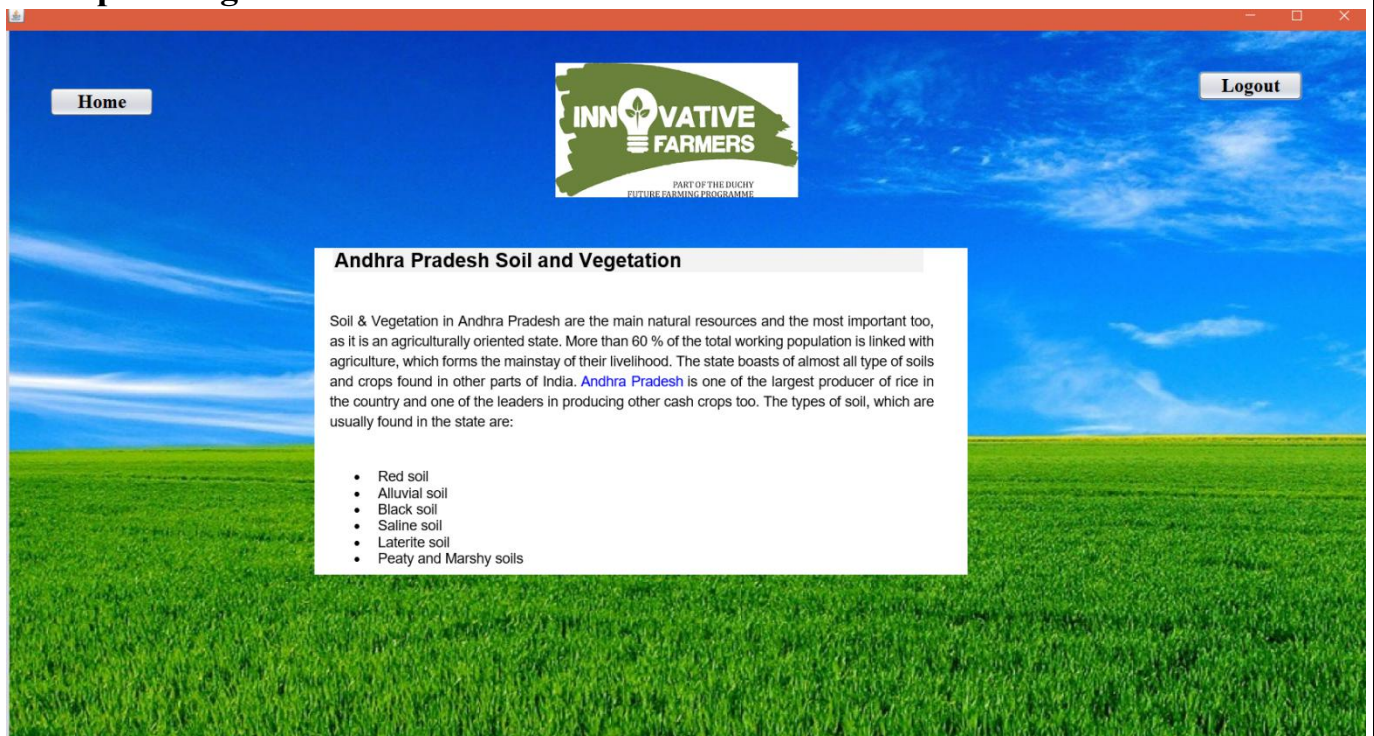
The screenshot displays the 'FARMERS' PORTAL' home page. At the top, there is a green header bar with the text 'FARMERS' PORTAL' and the tagline '\*ONE STOP SHOP FOR FARMERS\*'. Below the header, a navigation menu contains buttons for 'Home', 'Crop Managment', 'Crop Registration', 'Update Profile', 'Buy Products', 'Sell Products', and 'Logout'. The main content area features a large, colorful image of a farm landscape with fields and trees. Overlaid on this image is a white text box containing the following text:

Agriculture is the backbone of Indian economy. It plays important role in economic and social development of country like India, where 58% of the people engaged in agriculture. Thus, Overall development of a country is not possible without agriculture. For growth of agriculture, it is important to disseminate the technology to the field. There are various methods to disseminate information to the field.

Digitization is forming a digital version of analog/physical things such as paper documents, microfilm images, photographs, sounds and more. This digital information can be used by the farmers for various purposes based on their needs. Digitalization will play important role in agriculture innovation. Today, Information and Communication Technology can and should be a key agent for changing people's lives by improving access to information and sharing of knowledge.



## 4.Crop Management:



## 5. Crop Registration:

The screenshot shows a web application window titled 'Innovative Farmers' with a 'Home' button on the left and a 'Logout' button on the right. The background is a close-up of green grass. A central form contains four labels, two dropdown menus, two text input fields, and a 'Register' button.

Select area

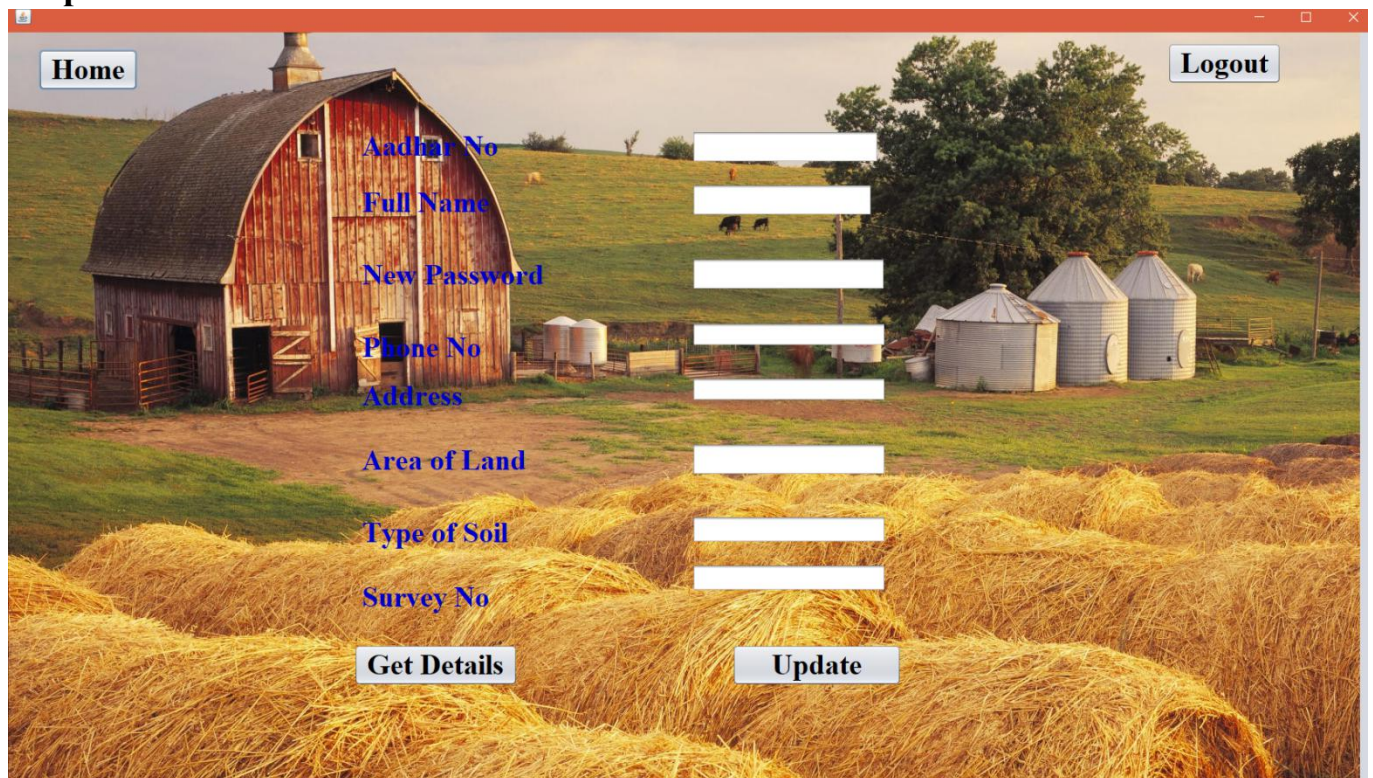
Select The Crop

No of Quintas available

No of Quintas to Book



## 6.Update Profile:



Home Logout

Aadhar No

Full Name

New Password

Phone No

Address

Area of Land

Type of Soil

Survey No

Get Details Update

## 7.Buy products:



Home Logout

SELECT SEEDS COTTON RS.100 Quantity (in kg)

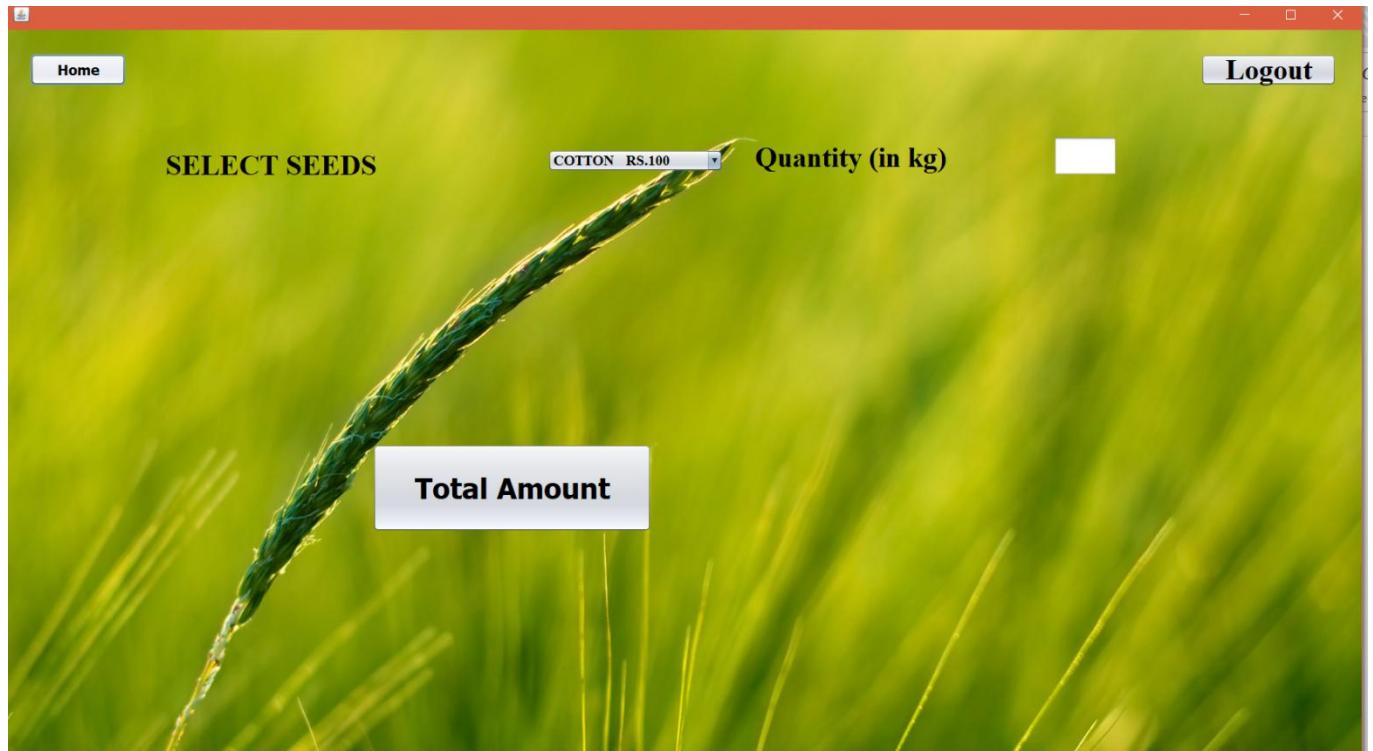
SELECT FERTILIZERS UREA RS.100 Quantity(in lit)

SELECT PESTICIDES INSECTICIDES RS.90 Quantity(in lit)

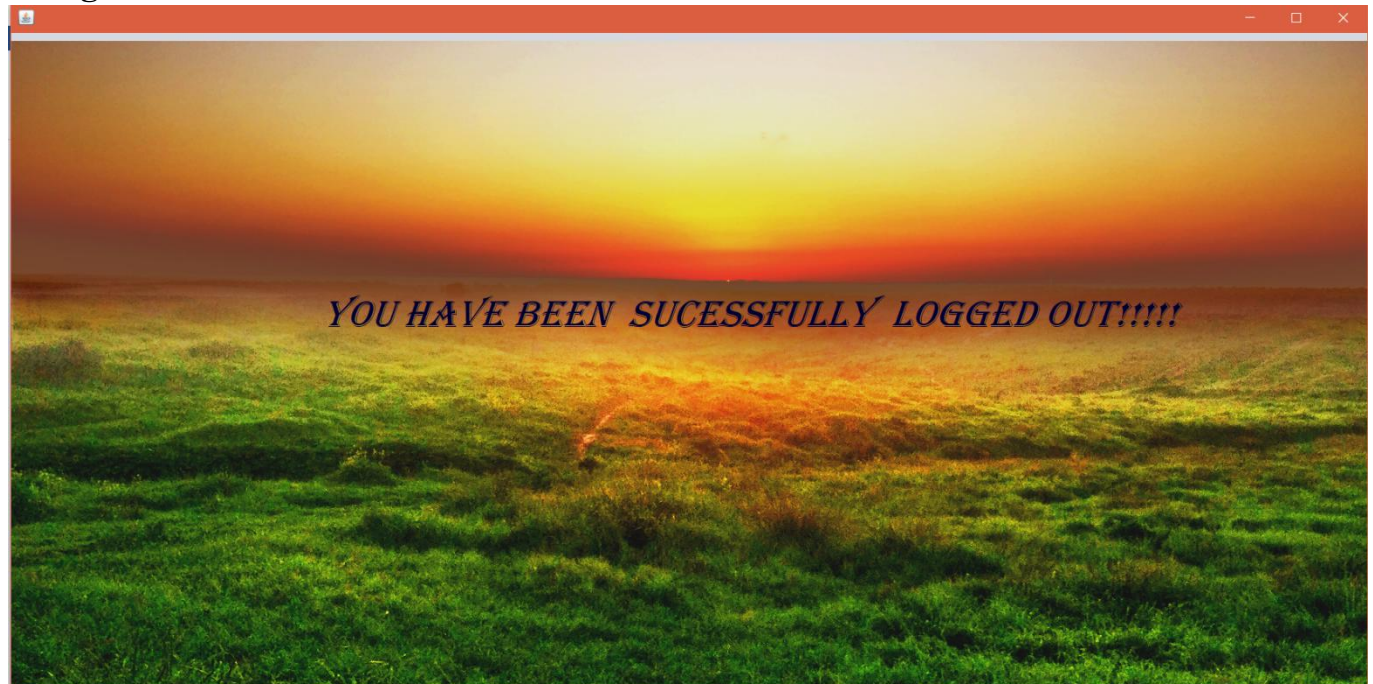
Total Amount



## 8.Sell Products:



## 9.Logout:





**9.Conclusion:**

This project will be helpful for farmers to know more about crops that will act as unique interface of schemes and compensation. Through this they will be always in touch of new technique and trends of farming. But to some extent, new user may feel some kind of stress about its use. Overall this system is faster, secure and comfortable.

An interface e-farming to accessing the agricultural information from the global repository of internet and the local repository has been proposed in this paper. This also helps farmers for efficient use of mobiles and internet.