# WEB TECHNOLOGY MINI PROJECT

<u>IT7412</u>

**DONE BY:** 

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# PROJECT TITLE SMART FARM

# **PROJECT DESCRIPTION:**

This is a project based on SMART FARM.

This project aims to create an interactive application in which farmers can use this portal to clear their doubts and get benefited. It helps to incorporate new technologies and ideas which helps farmers to enhance the production. In order to make this project user interactive *JAVA SWING* and ECLIPSE IDE platform is used to perform the operations.

# **OVERVIEW OF THE PROJECT:**

In this project, the user(farmer) must have an account in order to proceed to the web site.

The entry page has SIGN-UP and LOGIN options.

After entering the HOME PAGE four menu's are available:

- 1. CROPS
- 2. SHOP
- 3. SCHEMES
- 4. MACHINARIES

When the user click the specific menu item corresponding page will be opened. The user can access the respective pages.

# EXPLANATION OF THE PROJECT:

### **ENTRY MODULE:**

=>The ENTRY PAGE has 2 options:

1.Sign-Up

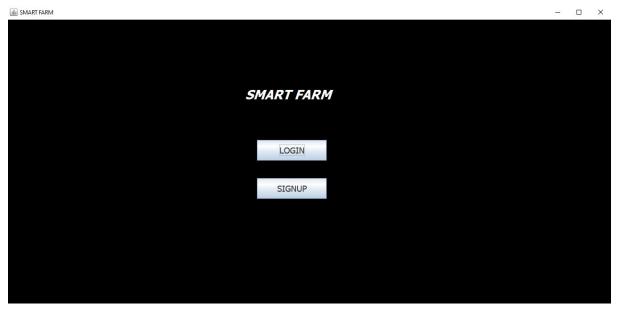
2.Login

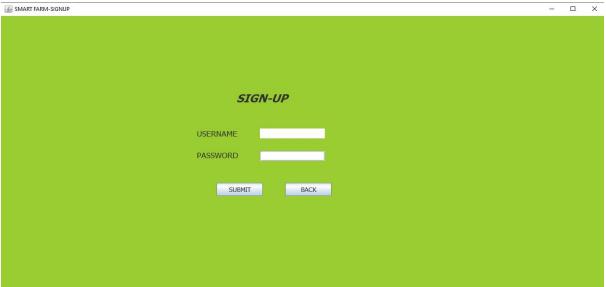
If farmer = NEW USER then SIGN-UP the entry page.

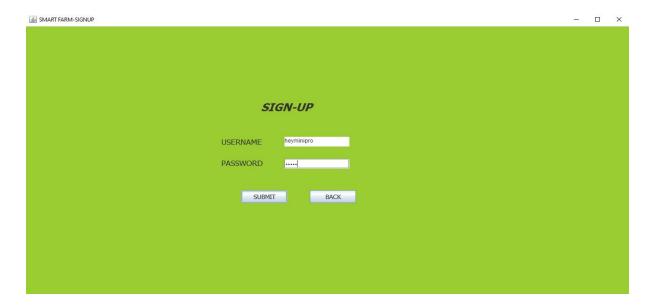
- =>The farmer can set up his user-name and password.
- =>The details of the farmer gets added to the Database.

If farmer= OLD USER then LOGIN the entry page.

- =>If farmer enters wrong credentials (i.e username or password) Error message will be popped.
- =>The details of the farmer which is already stored in the database is cross checked with the entered details.







		$\times$
LOGIN		
USERNAME  PASSWORD		
SUBMIT		
■ SMART FARM-LOGIN	_	
		×
	762	×
LOGIN		×
		×
LOGIN  USERNAME heyminipro		×

# **HOME PAGE MODULE:**

- =>Once the ENTRY PAGE has been login successfully HOME PAGE will be displayed.
  - => 4 menu's will be available in home page
    - 1. CROPS
    - 2. SHOP
    - 3. SCHEMES

#### 4. MACHINARIES

=>The farmer can use these menu's to enter into the corresponding pages.

=>The Home page describes the *NEED OF SMART FARM* & their importance with Images.





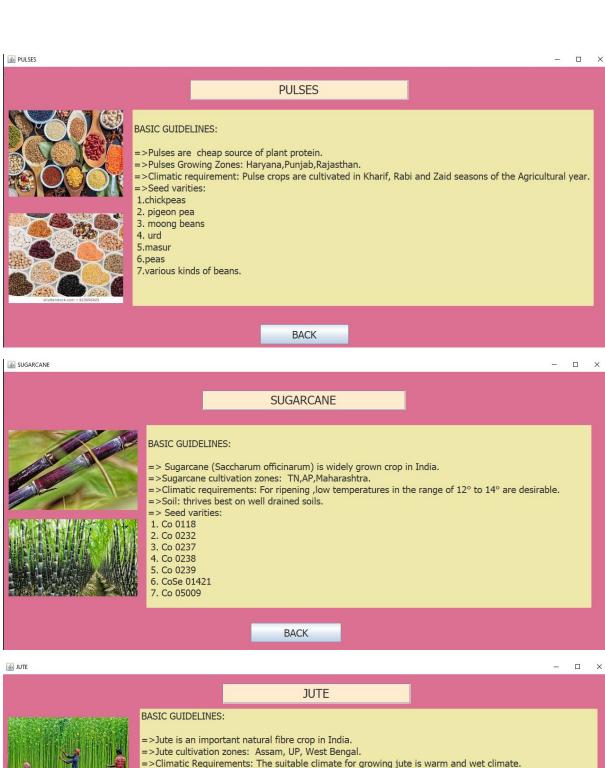
#### **CROPS MODULE:**

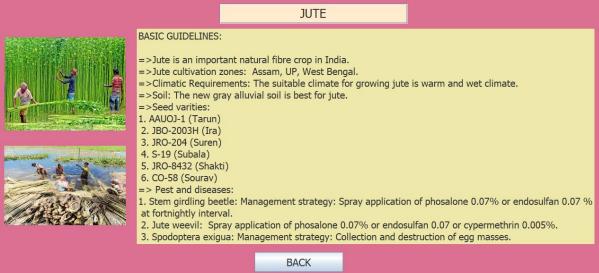
- =>The first menu in Home page where 6 six menu items are available.
  - 1.WHEAT
  - 2.RICE
  - 3.MAIZE
  - **4.SUGARCANE**
  - 5.JUTE
  - 6.PULSES
- =>By clicking specific menu item the farmer can go to corresponding crop pages.
- =>The information (includes suitable climatic conditions, fertility soil, temperature etc..) regarding the *CROPS* will be displayed along with their images.
- =>A button *BACK* will be there in order to go to previous page.





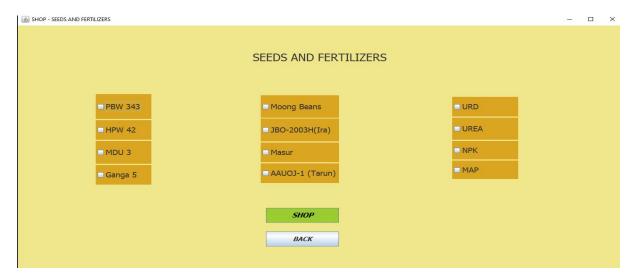






## **SHOP MODULE:**

- =>The shop page contains *SEEDS* and *FERTILIZERS*.
- =>If farmer wants to purchase items (i.e: SEEDS & FERTILIZERS) click corresponding items and press the *SHOP BUTTON*.
- =>The amount required to purchase the items will be displayed.
- => The seeds and fertilizers along with their quantity will be stored in the Database, if any item is purchased then the quantity of that item will get decreased in the Database.







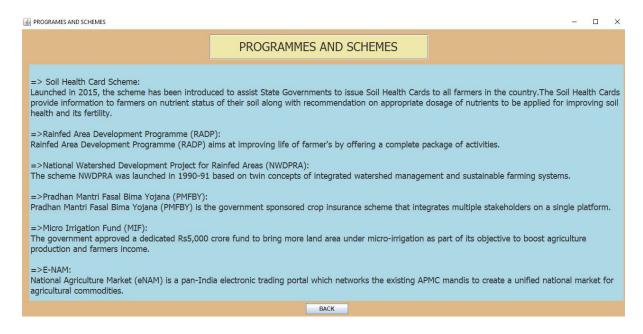
```
Command Prompt - mysql.exe -u root
 heyminipro | 12345
1 row in set (0.000 sec)
MariaDB [jp]> select * from shop;
                         qty
       name
        PBW-343
                             47
     2
                             30
         HPW-42
        MDU-3
        Ganga-5
        Moong beans
                             63
        JBO-2003H(Ira)
                             23
     6
        Masur
                             42
        AAUOJ-1(Tarun)
     8
                             32
                             14
    9
        Urd
    10
         Urea
    11
         NPK
                              9
        MAP
12 rows in set (0.001 sec)
MariaDB [jp]> select * from shop;
        PBW-343
     1
                             46
     2
        HPW-42
                             30
        Ganga-5
                             52
        Moong beans
        JBO-2003H(Ira)
                             41
         Masur
         AAUOJ-1(Tarun)
     8
                             32
    10
         Urea
                             11
    11
         NPK
                              9
         MAP
12 rows in set (0.001 sec)
```

## **SCHEMES MODULE:**

\_=>By clicking Schemes in the Home Page farmer can visit the SCHEMES page.

=>The SCHEMES page contains PROGRAMS AND SCHEMES which helps the farmers to know about some popular schemes.

=>The description of the schemes is attached along with their Scheme names.



#### **MACHINARIES MODULE:**

=>This page contains the agricultural *MACHINARIES* along with their images and cost which is useful in SMART FARMING.

=>If the farmer wants to apply *loan* the EMI CALCULATOR is available, the farmer can calculate his MONTHLY EMI by entering the principal amount, rate of interest and tenure.





#### **COST ESTIMATION:**

#### **ORGANIC:**

TOTAL NO. OF LINES: 1712 LOC = 1.712 KLOC

Effort(E)= $2.4*(1.712^1.05) = 4.22 \sim 4$  person-month

Time(T)=  $2.5*(4.22^0.38) = 4.32$  months ~ 4 months

Average Person =  $E/T = 4.22/4.32 = 0.97 \sim 1$  person

Productivity = 1712/4 = 428 LOC/person-month

Suppose it is estimated that the project will take Rs.5000/person-month(which may vary).

TOTAL COST: 4\*5000=20000