A project report on

AN AGRICULTURAL PORTAL FOR FARMERS-WEB BASED SERVICES

Submitted in partial fulfillment for the award of the degree of

Master of computer applications

by

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ABSTRACT

The proposed project is an agricultural portal for farmers named as agripro which is to give the user a view of how to select the fertilizers regarding climate and crops. The user can also view and order the necessary items used in agriculture. This portal is a complete platform to get the details and also refers the essentials of farming. The front end of the project is created using HTML and CSS and the data is stored in a database. The XAMPP server is also used at the back end.The modules for the proposed project acts as a portal in helping the accessing end users.

INTRODUCTION

Farmer's portal:

The web portal based on services is something which helps the user or to provide something useful to the specified user. The proposed project is based on agriculture, so the specified user will be mostly farmers. Therefore the web portal must be in a way to help the farmers. The project aims to give the modules like signup, weather info, climate details, fertilizer details, pesticide details, innovations, crop details and loan applications (bank accounts) etc.. The modules can be increased if the requirements are needed and changes can also be done.

ADVANTAGES OF A SERVICE PORTAL:

The service portal's main aim is to provide some required information to the user. The details can be collectively found in the same portal so that the user need not to search in different websites for different details. But the user who are all signed up under this portal can only login and get the details.

OVERVIEW OF FARMER'S PORTAL

The portal contains modules of different perspectives for the farmers like the weather information, crop details, and the fertilizer requirements, pesticide requirements, crop details, etc.. The portal starts with a homepage in which options like sign up, frequently asked questions. The user can login with a unique code (aadhar card number in this case) and their mobile number. The user can view the entire portal after getting logged in. The new users can register using the sign up option by filling the form given. The weather info option gives the predicted weather for the selected city for the next 5 days from the ongoing day. The crop management and the fertilizer module gives the details of the crops, their requirements and their innovations. The portal acts as a complete detailed service for farmers as they can track the famous markets in India under this portal

CHALLENGES PRESENT IN AGRICULTURE'S PORTAL

The main challenge which lies in making the farmer's portal is that the formation and maintenance. The end users must get the entire service as that is the motive behind the creation of any service portals. Therefore the portal must be in a way that the end user can easily access and use it. The user in this case is the farmers, so the portal must not be much confusing and on the other hand the web portal will be only accessed by the people who know to use the computer and access internet. The portal must be in a usable way for both the kind of users and provide the information for all the kind of users. So the front end must be clear to meet these requirements. And for the maintenance the back end must be connected to the database for maintenance. The weather prediction

also needs to be effective and the details provided must be highly useful. So these are the challenges in creating and maintaining the service portal for farmers.

OBJECTIVES

The main objective of the project is to create a web based agricultural portal for the farmers. The portal's aim is to be user friendly as well as useful to the users who are accessing for information. The new users can register with their email id and password. The portal should be creative and in the same way non- confusing. The weather prediction which is referenced from another website should be accurate and the details should be useful.

SCOPE OF THE PROJECT

The field of agriculture is one of the dominating sectors in our country. The most number of other sectors majorly depend on this sector. The web service portal for these kind of agriculture portal has to be accurate as well as useful. The numerous kind of end users those who are wanting to get information from the portal should be correctly seen in manner to get their requirements. So the scope of the project not only deals with the creating side, it also extends its boundaries to the users. One cannot classify the end users while creating a portal but predicting the end users must be accurate in terms of providing information.

SURVEY ON FARMER'S PORTAL

CerOrganic web portal

The CerOrganic Web Portal (http://portal. cerorganic.eu) was developed in order to meet the vocational education and training needs raised in the context of growing agricultural needs. It is a portal that supports the development of innovative web-based content, services, pedagogies and practices for lifelong learning, focusing on the vocational education and training sector of agriculture. A typical user of the CerOrganic Web Portal is able to browse through its content and find information about available jobs and vocational training opportunities, particularly in the rural and agricultural areas, as well as certificate supplements that can be obtained from the corresponding vocational training opportunities.

E-farmer Management System for Agrarian Service Centre in Sri Lanka

The system provides information to get decisions about current productions, meeting schedules, agri-business, available agrarian technology related information, crop details and forum discussions through the internet in the forms of text and images. It can broadcast expertise advices to the farmers in a timely and personalized manner by using the available agricultural technologies and the latest information about the crop situation received by the farmers in the forms of text and images. They can easily communicate with agrarian officers and the other group of farmers to sharing their knowledge and other farming related information.

MODULE DESCRIPTION

SIGNUP PAGE

This page is used to add the user and gives them an unique username and password. The signup can be done in two ways by the user.

- EMAIL VERIFICATION
- ONETIME PASSWORD VERIFICATION

EMAIL VERIFICATION

The user enters their username, email id and the password is given by the user. Now to get the verification, the user has to give unique code which has been sent to their mail. After giving the correct unique code, the page sends a verification that the user has signed up to the portal.

ONETIME PASSWORD VERIFICATION

The other way to get signup is using the mobile number and username. After entering the mobile number the user will get an OTP which is a onetime usable unique code of four digits. After entering the unique code the user can successfully signup to the portal.

FORGOT PASSWORD

The option forgot password can be used if the user forgets the password which they used to signup. The database stores the username and their password with their email id. So in this option the password is sent to their verified email ids.

FARMER'S MODULE

This module coves the options like videos, innovative methods, scientific methods and handbooks. The user can also view and order the necessary items used in agriculture. The main challenge which lies in making the farmer's portal is that the formation and maintenance. The end users must get the entire service as that is the motive behind the creation of any service portals. Therefore the video section covers the details and the introduction to be given to the end users. Here the number of videos can be added.

VIDEOS

This section covers videos for the users. The uploading part of the videos will be taken care by the maintainers of the web portal. This section can be updated frequently in order to give the end users new ideas related to farming. The innovative methods which are being developed in the field of agriculture can also be discussed. This section also contains a video which gives a short introduction to the users about the portal.

INNOVATIVE METHODS

Innovation can be done on any field so that the particular field can develop beyond boundaries. In the field of agriculture there are certain things which can be innovatively done and can be used as a way to develop. Keeping this in mind, seven of the latest innovations are discussed under this section. As said earlier this section can also be updated with the day to day innovations.

- Barrix
- Biosat
- Farming with fungus
- Rooftop growing
- Borewell scanners
- Bird repellar
- Micro irrigation controller

SCIENTIFIC FRIEND

This section is treated as the connectivity between the user and the portal. The user can send their questions to the portal under this section. The portal also prompts the user to give the email id so that the answers to their questions can be sent to them. The questions which the user gives are stored in the database. The experts can give them answers within a matter of time.

WEATHER INFO

The portal must be in a usable way for both the kind of users and provide the information for all the kind of users. So the front end must be clear to meet these requirements. The weather info option gives the predicted weather for the selected city for the next 5 days from the ongoing day. The module contains the options like south cities, north cities and help. The user by selecting the name of the city can get the weather information of the city for the next 5 days starting with the current ongoing day.

NORTH CITIES

The north cities which are included in the portal for weather information.

- Amristar
- Bradeshwar
- Bihar
- Delhi
- Indore
- Jodhpur
- Patna
- Shimla

SOUTH CITIES

The south cities or localities which are included in the portal for weather information.

- Ambattur
- Bangalore
- Chennai
- Chitoor
- Cochin
- Coimbatore
- Dindugal
- Erode
- Guntur
- Hyderabad
- Madurai
- Meghamalai
- Nellore
- Pondicherry
- Salem
- Thanjavur
- Thirunelveli
- Thiruppur
- Trivandrum
- Tuticorin
- Vellore
- Vishakapatnam

FERTILIZER MODULE

The fertilizer module has the options like basic nutrients, macro nutrients, micro nutrients and help. The options covers the name of the nutrients and by selecting each of the name, the user can get a example of how the fertilizer can be used and a short explanation of the fertilizers. By seeing this module the user can know the fertilizer requirement for the crops.

BASIC NUTRIENTS

The fertilizer is something added to the soil to enrich the soil's nutrition and to support the growth of plants. The basic nutrients are as follows

- Carbon
- Hydrogen

MACRO NUTRIENTS

- Calcium
- Magnesium
- Nitrogen
- Phosporous
- Potassium
- Sulphur

MICRO NUTRIENTS

- Ammonium chloride
- Boron
- Cobalt
- Copper
- Iron
- Manganese
- Molybdenum
- Zinc

PESTICIDES MODULE

Pesticides are substances that are meant to control pests (including weeds).This module contains the types of the pesticides and the pesticides which can be used for controlling the pests. The pesticide usage can be reduced so that the plan growth can be healthy but the usage of pesticide is also required in a limited amount in the modern day agriculture.

TYPES OF PESTICIDES

- Algicide
- Attractant
- Bio pesticide
- Biocide
- Fungicide
- Herbicide
- Insecticide
- Repellant

CROP DETAILS

The details of the crops according to the seasons can be viewed here.

- High yield crops
- Fruits
- Vegetables

HIGH YIELD CROPS

The high yield of the crops is termed from their vegetation percentage in the specific states. Here the high yield crops of some states are discussed followed by the fruits and vegetables.

MARKET DETAILS

All the markets are special and unique in their way they sell and buy things. In this section some of the market with their location and specialities are listed. The location of these markets are viewed using the google maps. Some of the listed vegetable markets are

- Katpadi(vellore)
- Pallavaram
- Connor
- Sathiyamangalam
- Melur

LANGUAGE OPTIONS

The portal’s main aim is to reach the end users. Making a portal in different languages helps users accessing from different locations. In this portal we have tried to view the details in both english as well as tamil. Some pages are available in both of these nguages.

CHAT ROOM

This section gives the option to interact among the users. The simple way to get connected is by using chat applications. The user can give a name to them and interact with the other users by using this section.

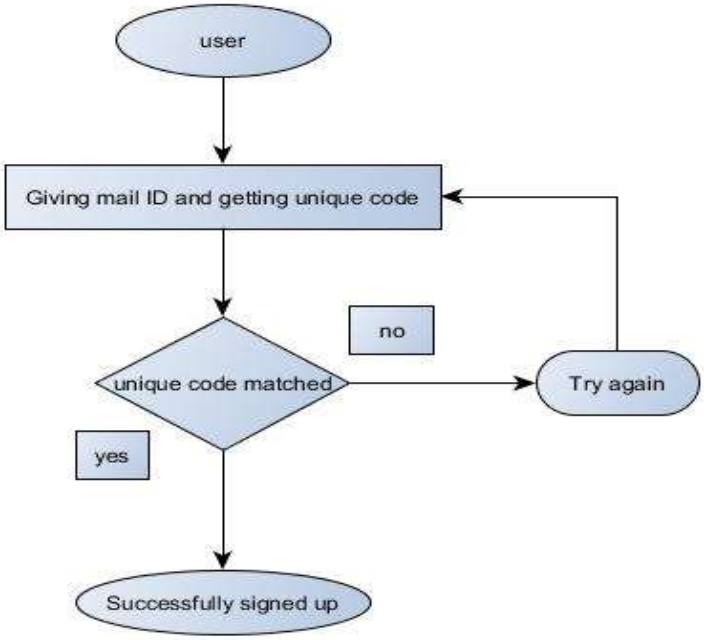
BANK ACCOUNTS

LOAN

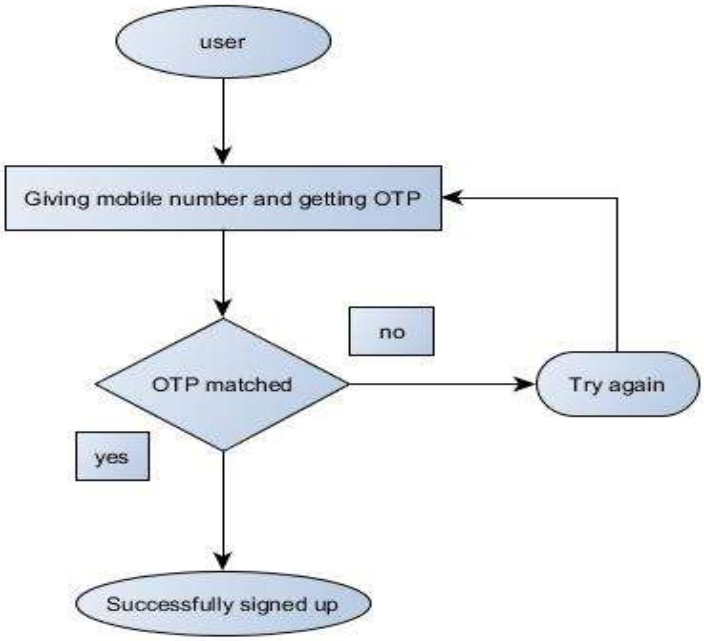
The user can apply for a loan in this section. The account number and the reason for applying the loan is prompted there. The particulars are saved in a database for further approval if needed.

FLOW CHARTS

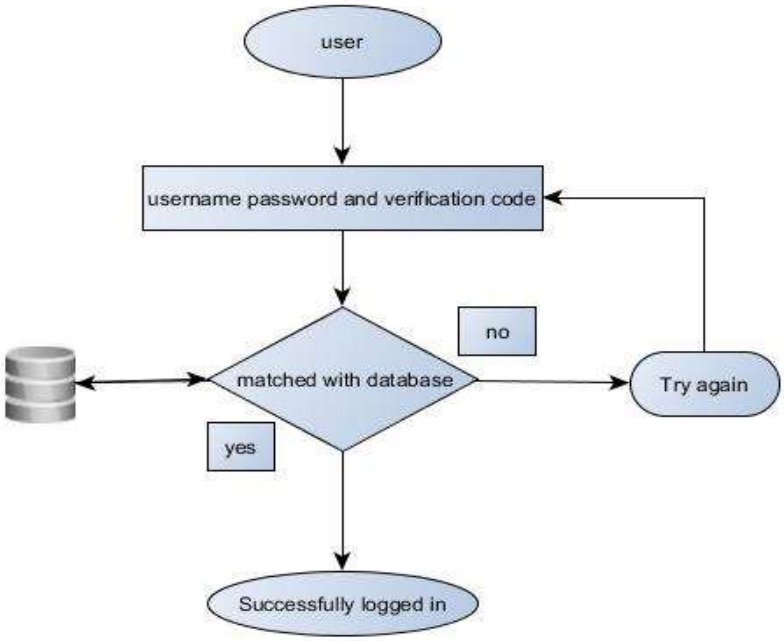
SIGNUP(EMAIL):



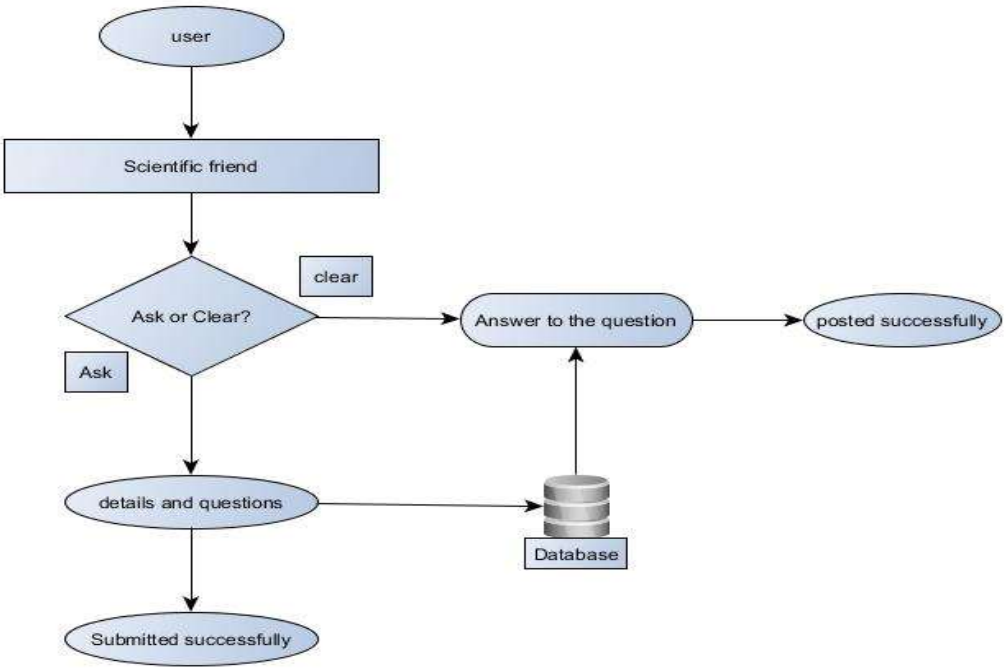
SIGNUP(OTP):



LOGIN:



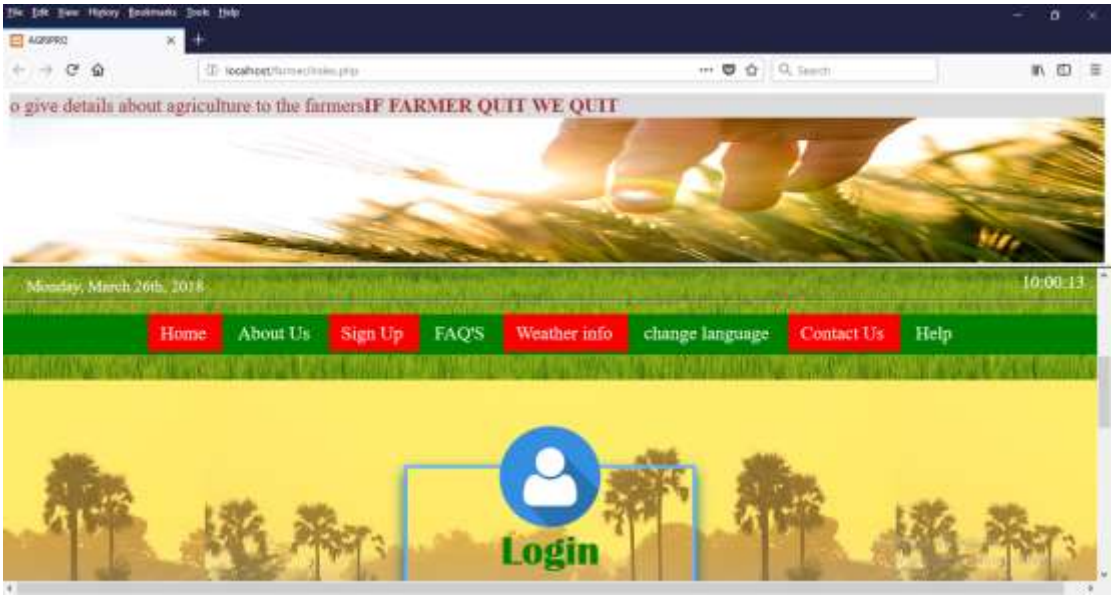
SCIENTIFIC FRIEND:



SCREENSHOTS

HOMEPAGE:

HOMEPAGE(DASHBOARD):



LOGIN PAGE:

Login
USERNAME
PASSWORD
VERIFICATION CODE
49918
LOGIN
RESET
FORGOT PASSWORD?

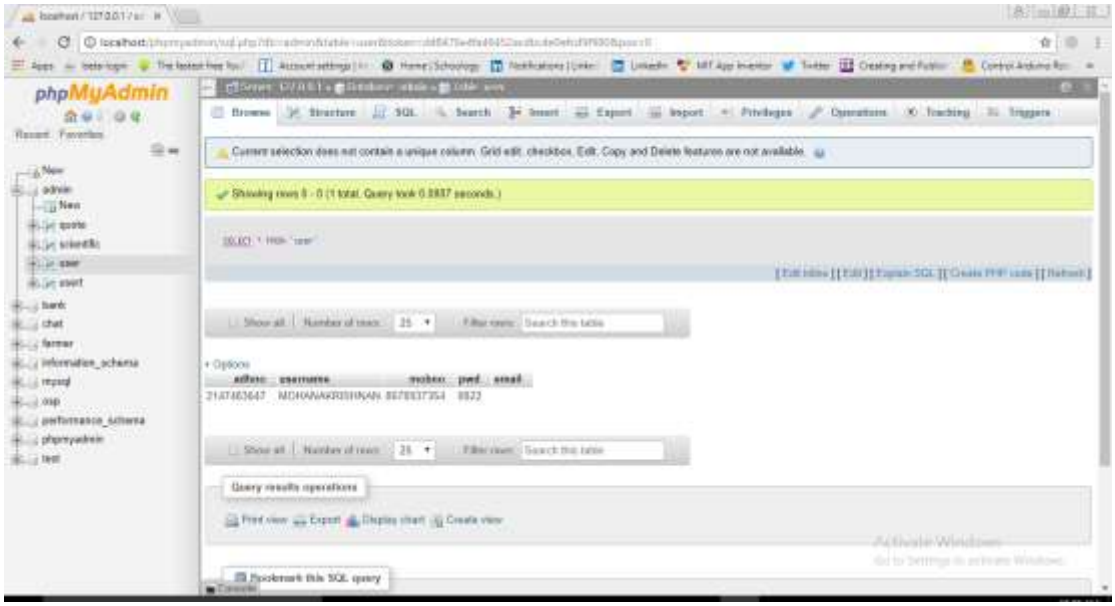
USERNAME
PASSWORD
VERIFICATION CODE
49918
LOGIN
RESET
FORGOT PASSWORD?
SIGNUP WITH OR
Home|About us|Contact Us| Help|

SIGNUP:

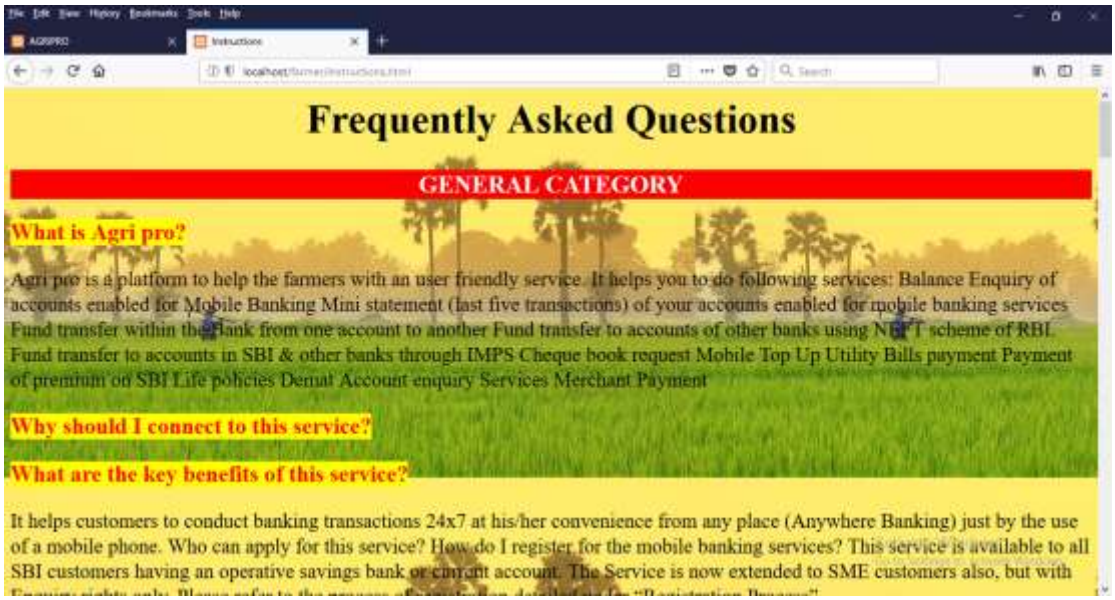
FOR NEW USERS
Go back
SIGNUP
Aadhar number
User Name
Mobile number
Password(new 4 digits Only)
Password Confirm
Next
Reset

MOHANAKRISHNAN
Sign Up Suceesful
click here to view your account details..

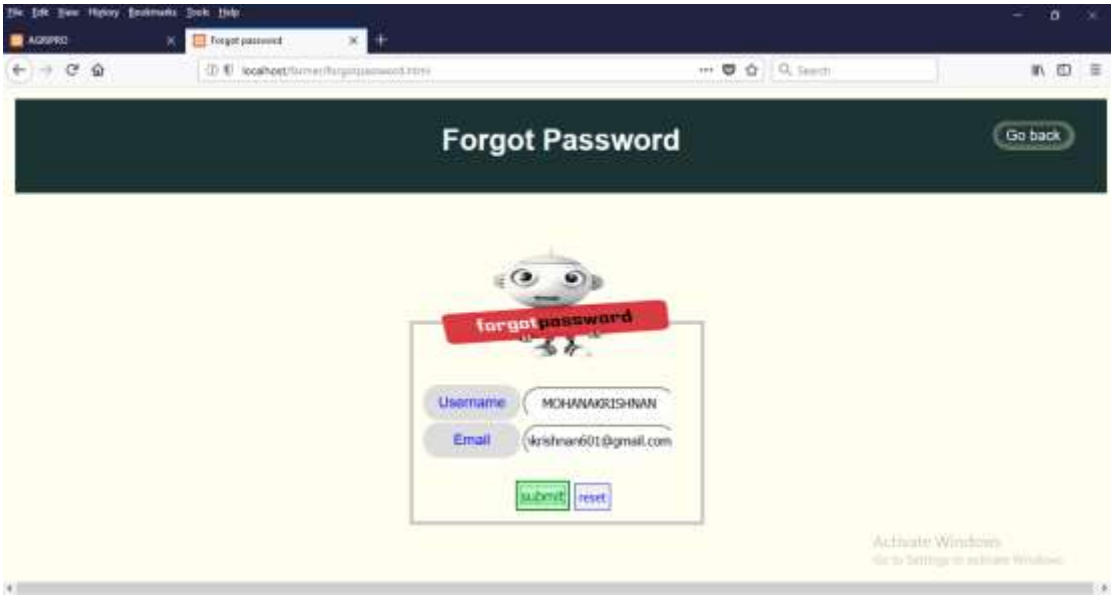
DATABASE STORAGE:

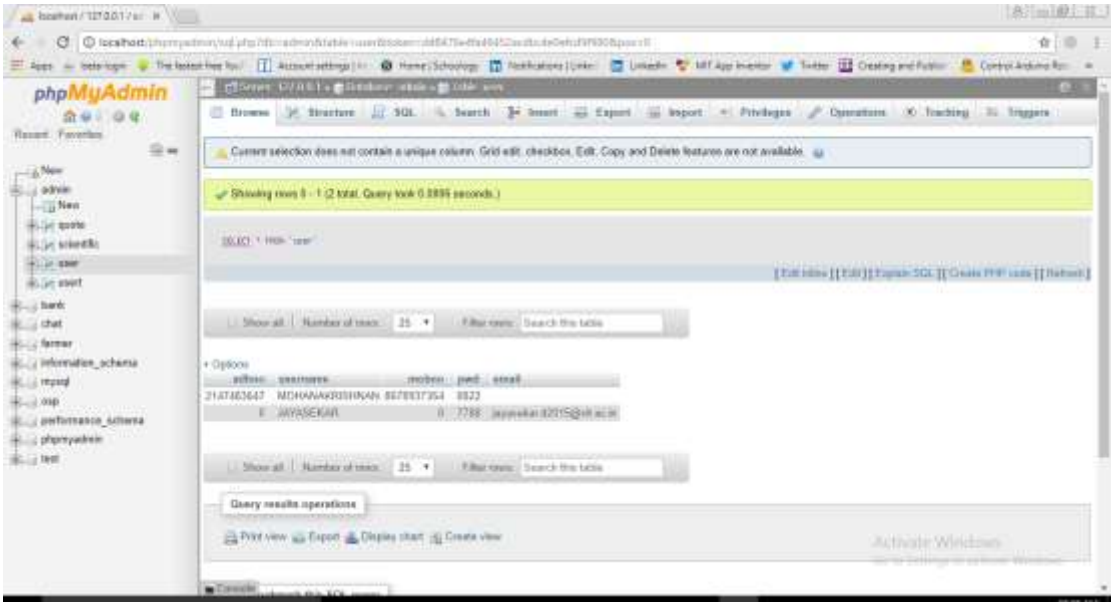


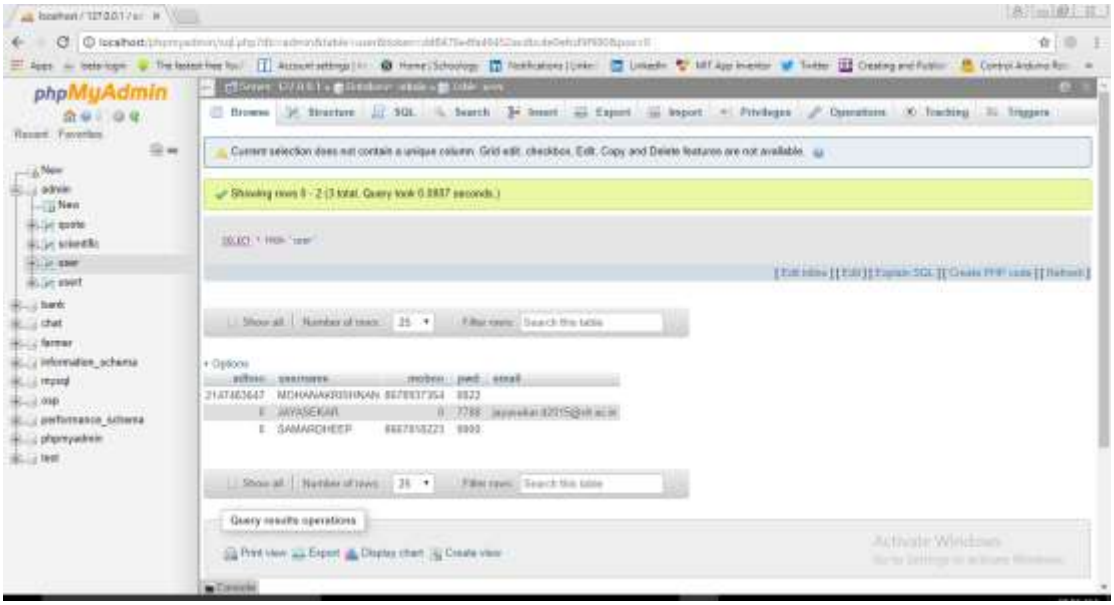
FAQ(FREQUENTLY ASKED QUESTIONS):



FORGOT PASSWORD:



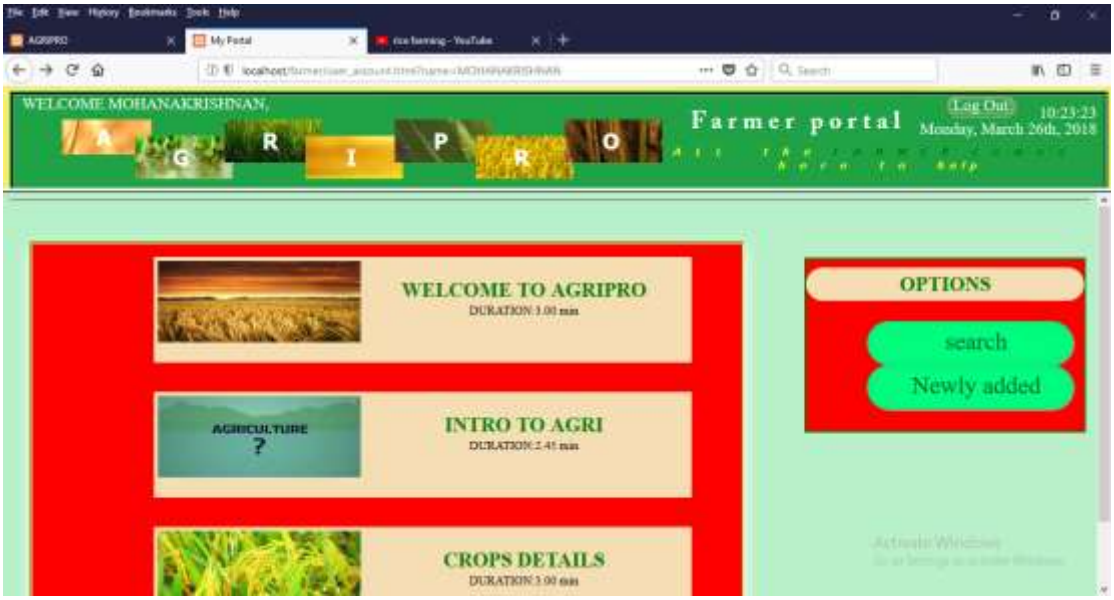


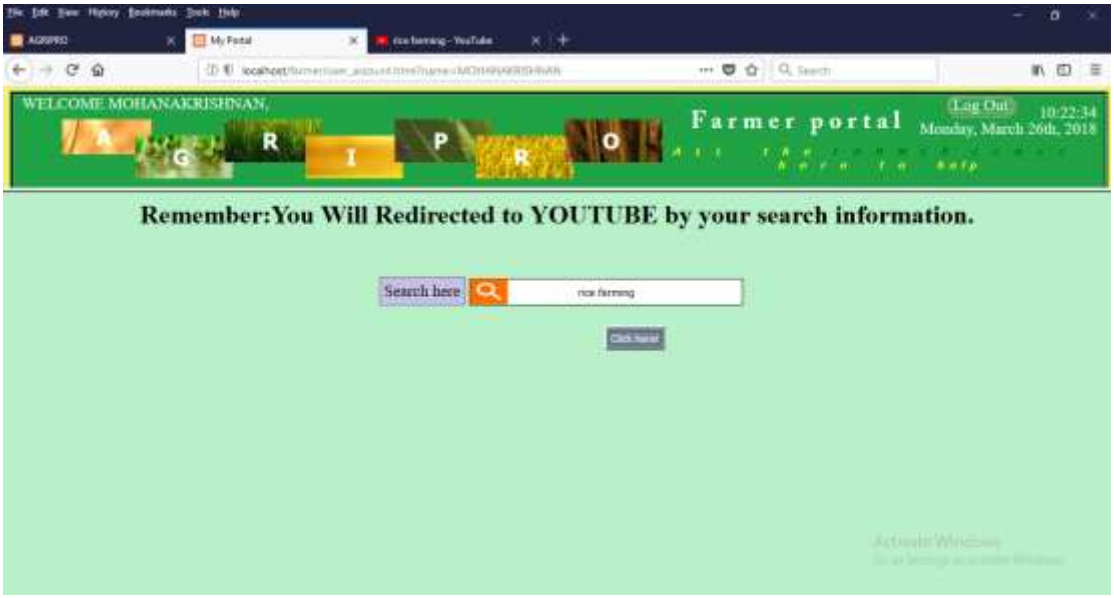


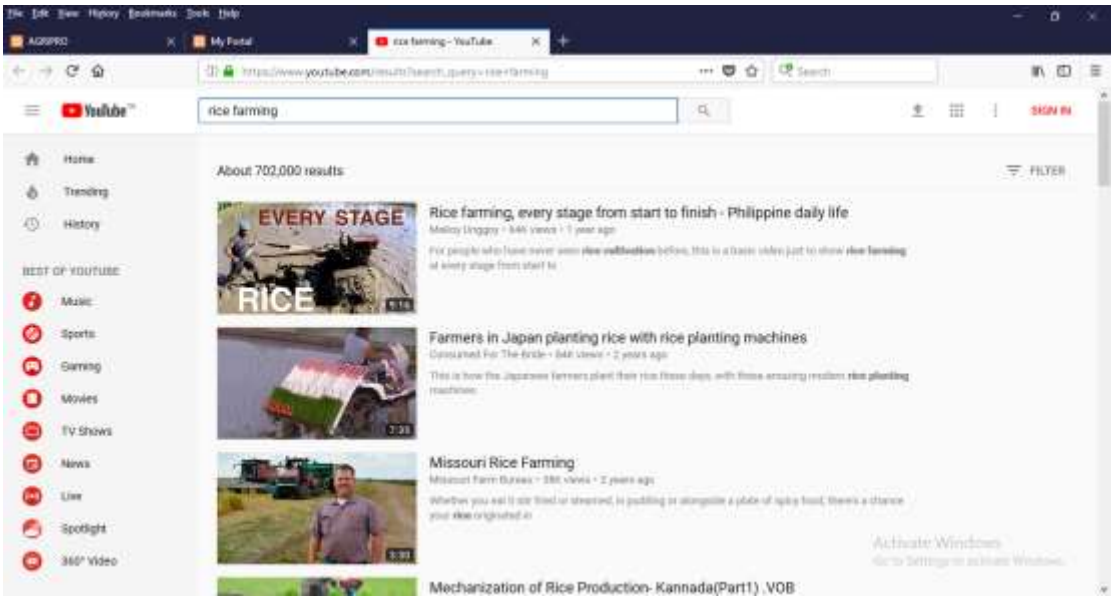
DASHBOARD(FRONT PAGE):

FARMER'S MODULE:

VIDEO SECTION:

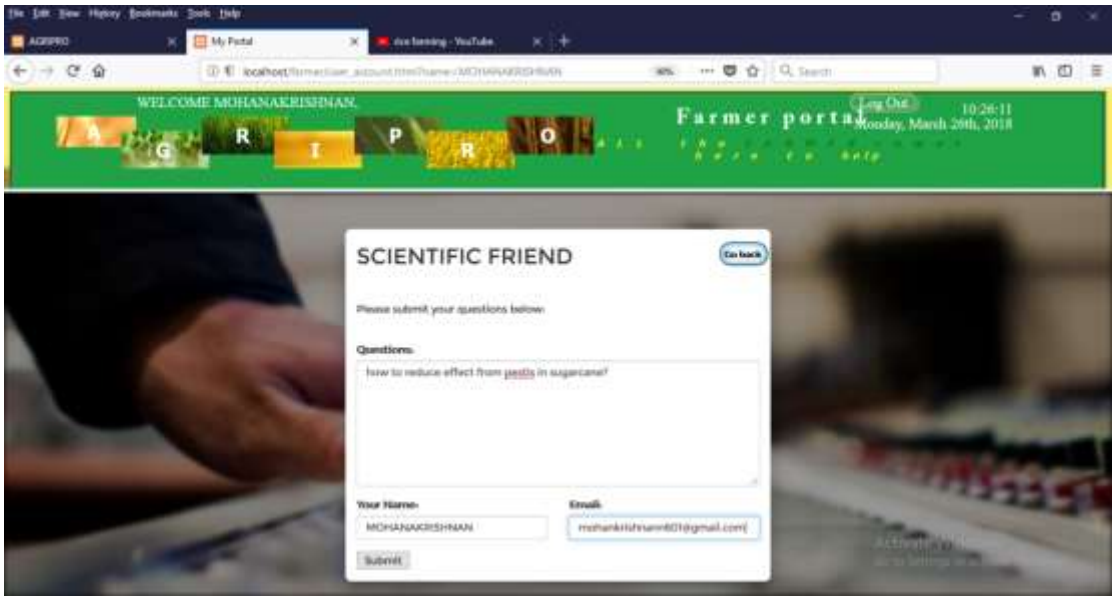



WELCOME MOHANAKRISHNAN,
AGRIPRO
Farmer portal
(Log Out)
10:22:34
Monday, March 26th, 2018
Remember:You Will Redirected to YOUTUBE by your search information.
Search here
rice farming

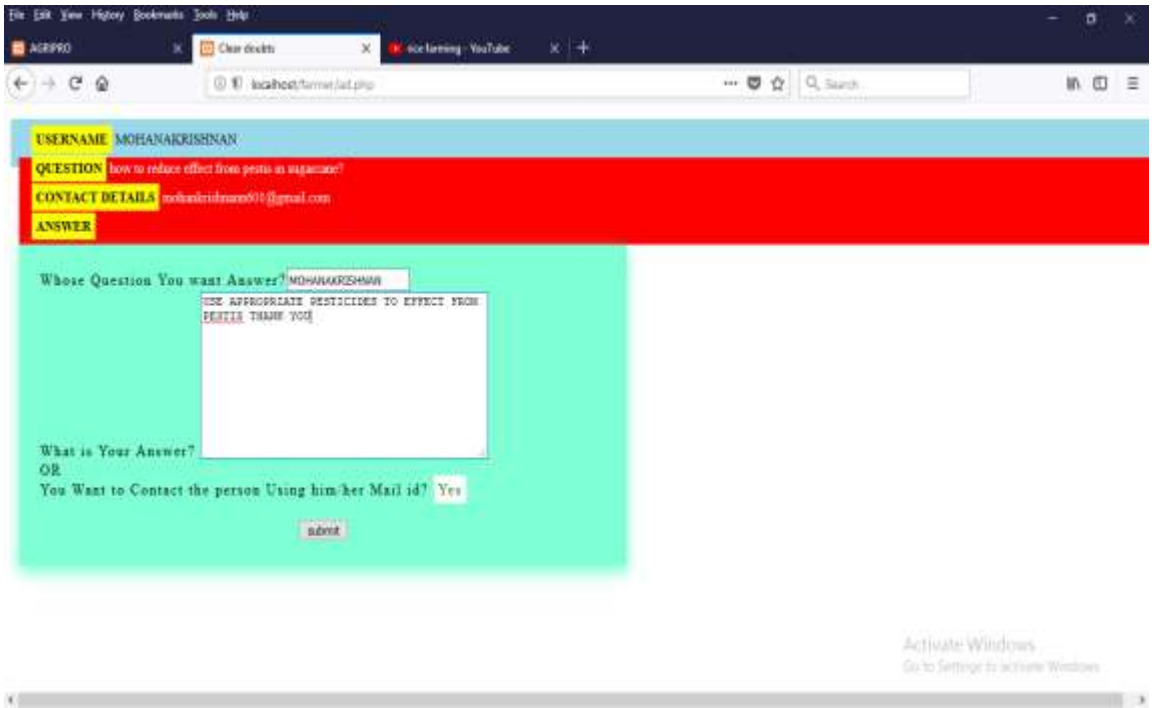

rice farming - YouTube
rice farming
SIGN IN
Home
Trending
History
BEST OF YOUTUBE
Music
Sports
Gaming
Movies
TV Shows
News
Live
Spotlight
360° Video
About 702,000 results
FILTER
EVERY STAGE
RICE
Rice farming, every stage from start to finish - Philippine daily life
Farmers in Japan planting rice with rice planting machines
Missouri Rice Farming
Mechanization of Rice Production- Kannada(Part1) .VOB

INNOVATIONS:

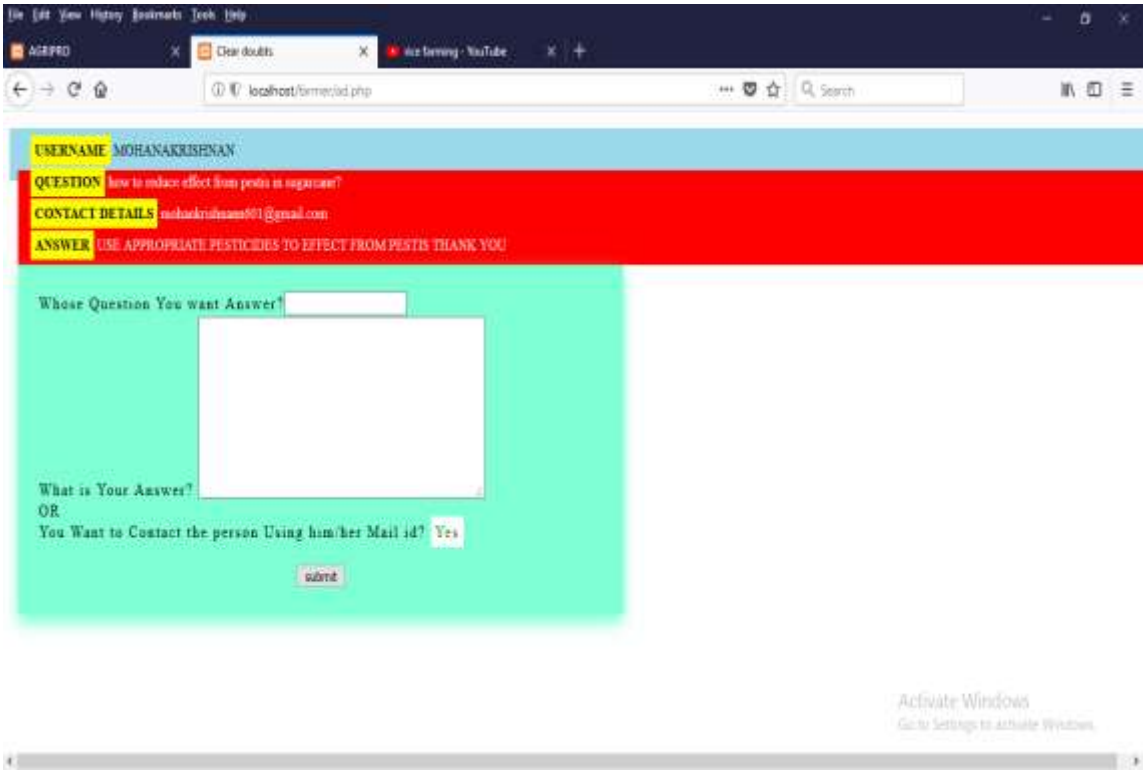
SCIENTIFIC FRIEND:



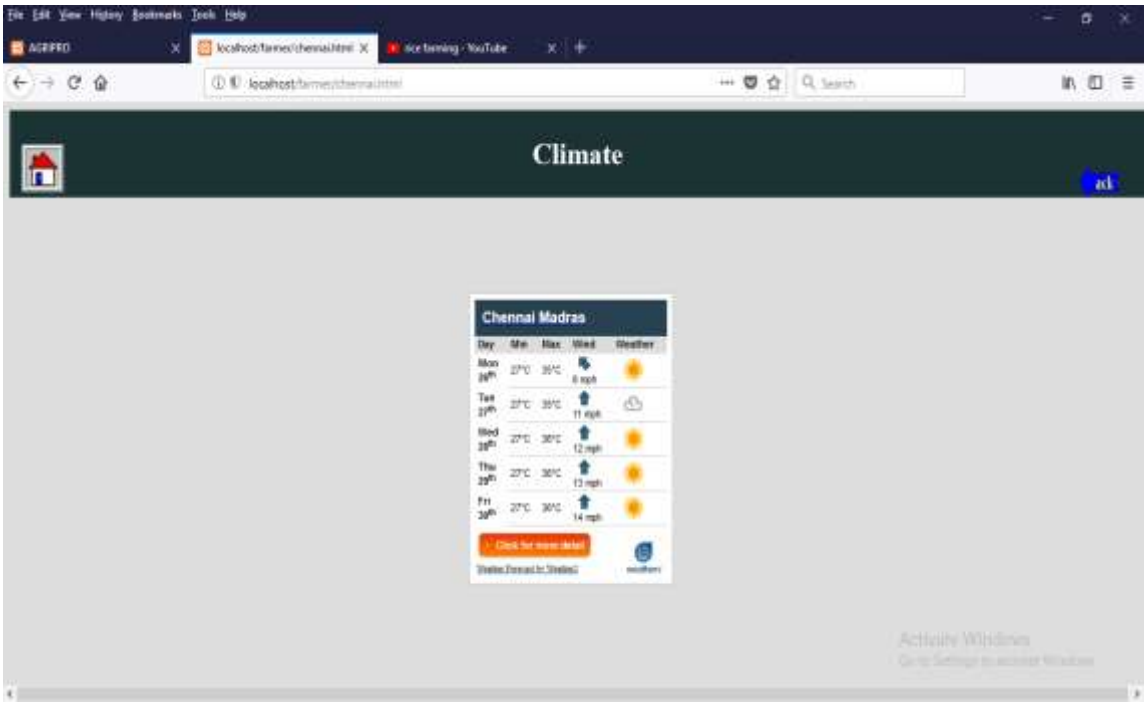
Activate Windows
Go to Settings to activate Windows.



Activate Windows
Go to Settings to activate Windows.

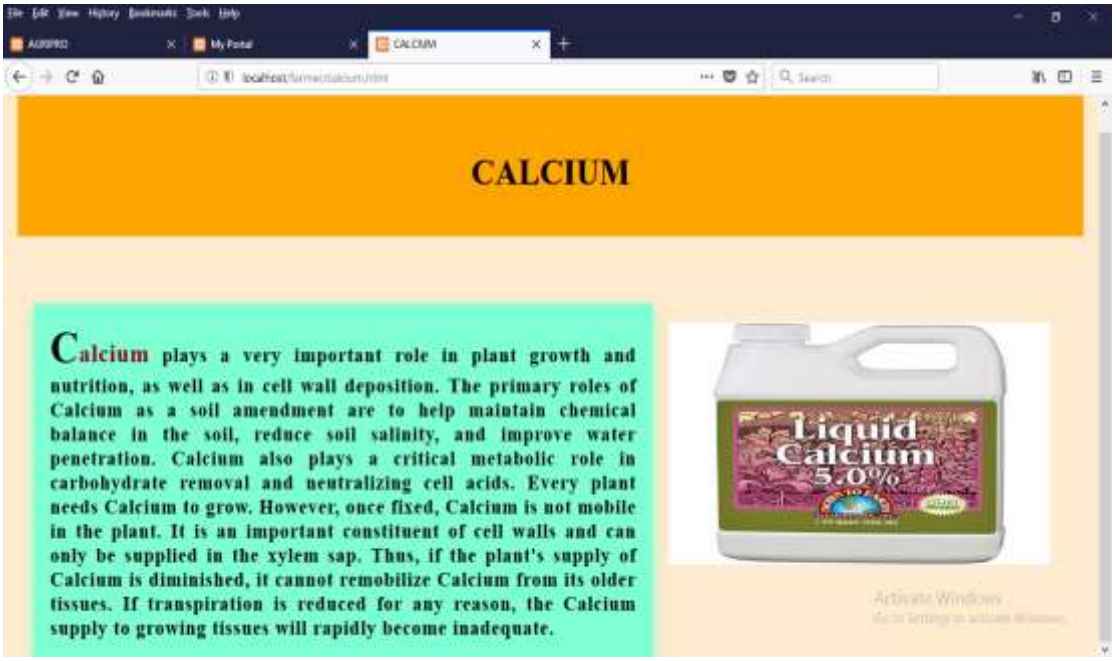


WEATHER INFORMATION:

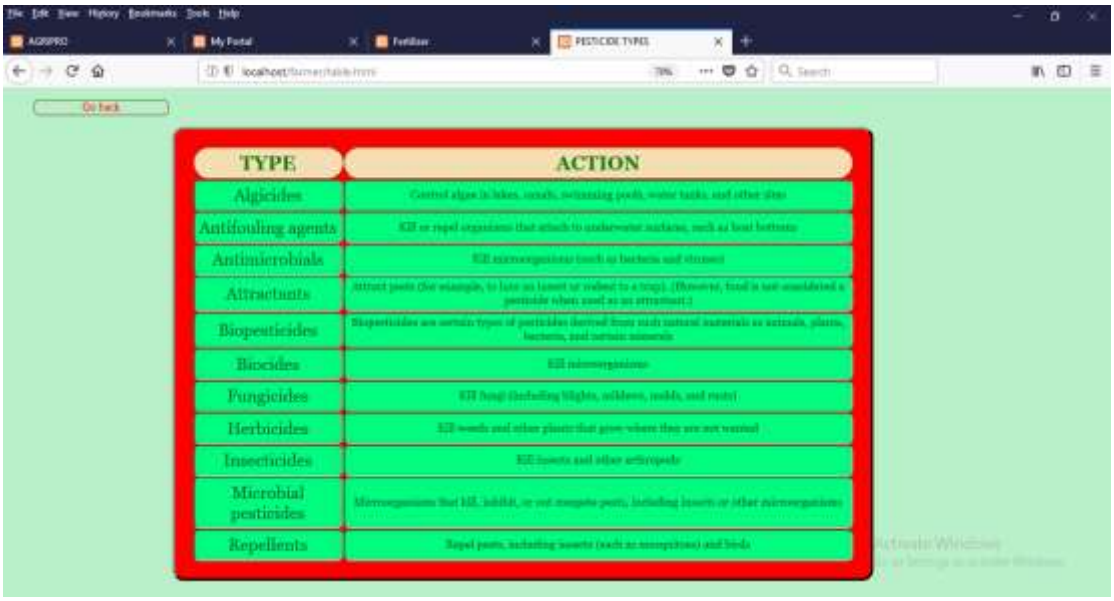


FERTILIZER INFORMATION:

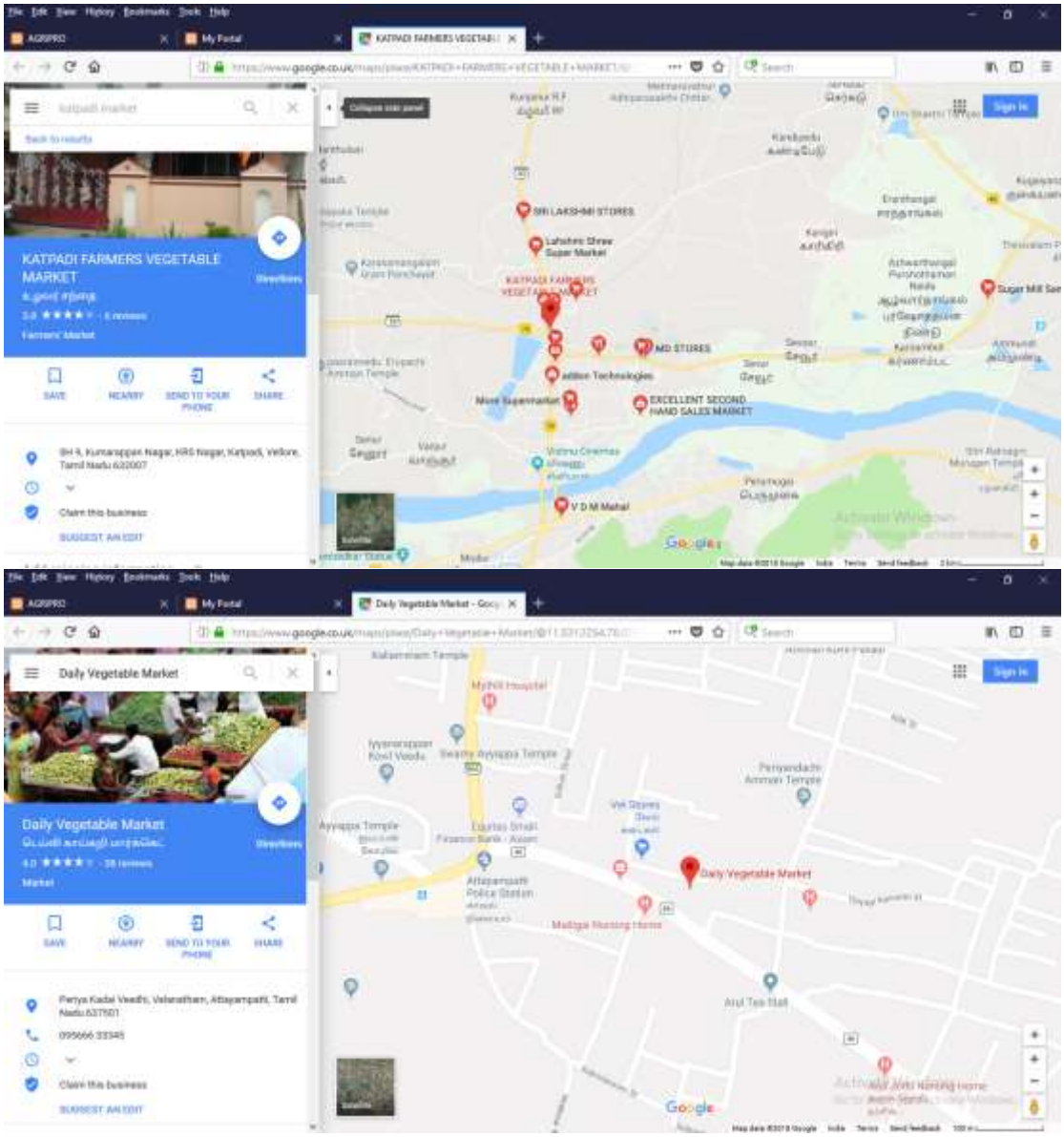
CARBON
The carbon fertilization effect will cause changes in crop yields at least half as large as those due to alterations in climate Although the simulation is not comprehensive enough to provide definite estimates of the regions that will be most affected by the carbon fertilization effect, it does suggest that vegetation models ought to take the phenomenon into account on a regional level.
CarboElixier


CALCIUM
Calcium plays a very important role in plant growth and nutrition, as well as in cell wall deposition. The primary roles of Calcium as a soil amendment are to help maintain chemical balance in the soil, reduce soil salinity, and improve water penetration. Calcium also plays a critical metabolic role in carbohydrate removal and neutralizing cell acids. Every plant needs Calcium to grow. However, once fixed, Calcium is not mobile in the plant. It is an important constituent of cell walls and can only be supplied in the xylem sap. Thus, if the plant's supply of Calcium is diminished, it cannot remobilize Calcium from its older tissues. If transpiration is reduced for any reason, the Calcium supply to growing tissues will rapidly become inadequate.
Liquid Calcium 5.0%

PESTICIDES INFORMATION:

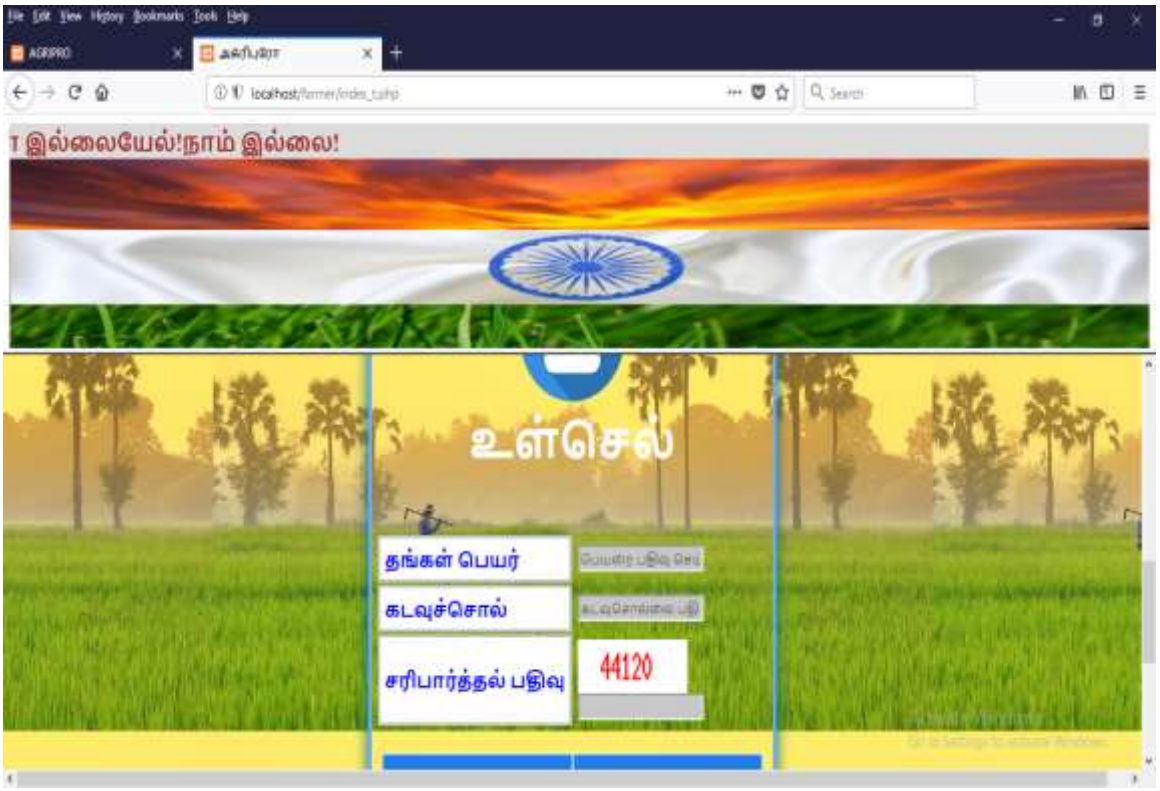


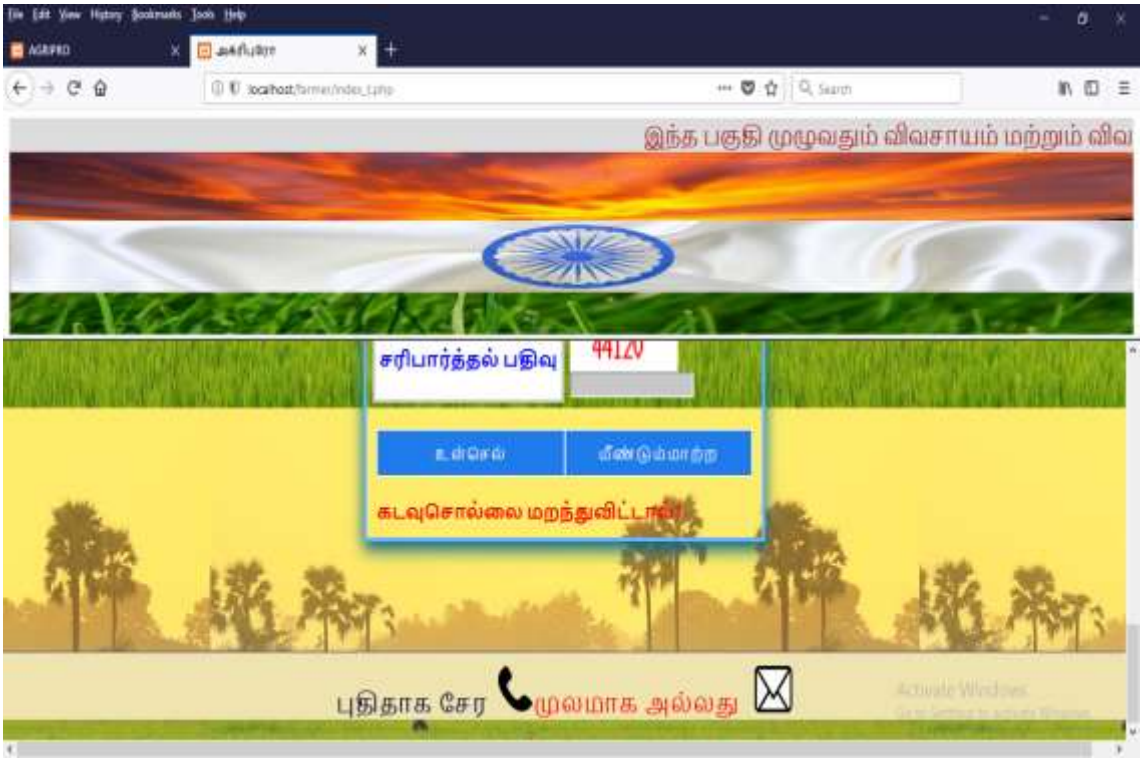
MARKET DETAILS:

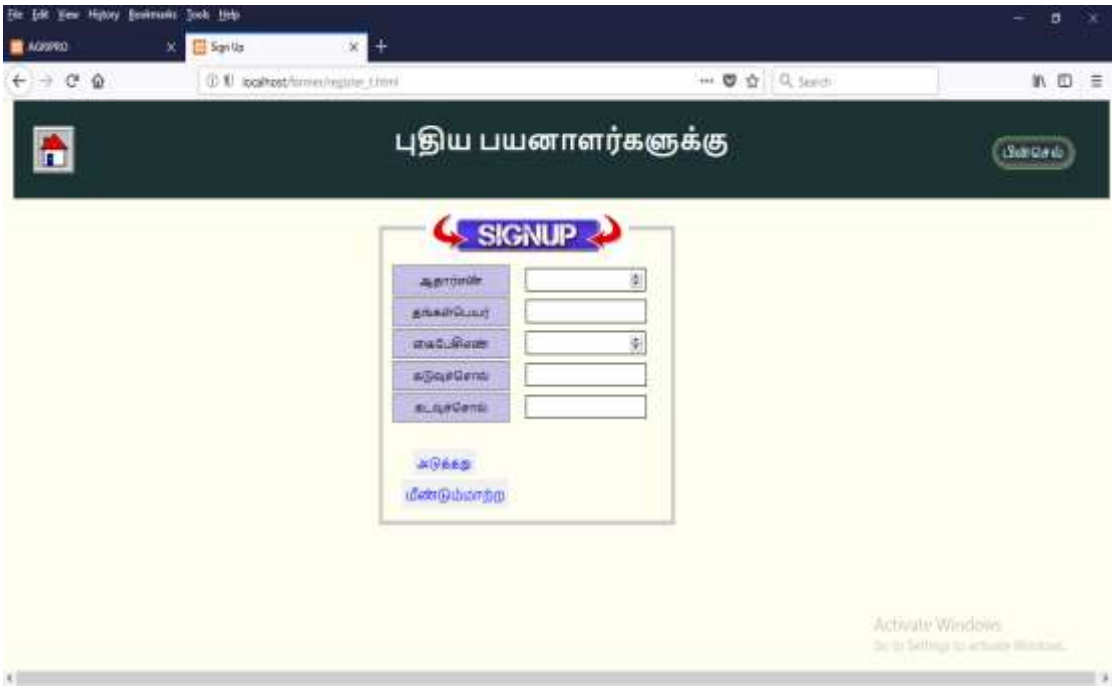


LANGUAGE OPTIONS(TAMIL):

ும் விவசாயம் மற்றும் விவசாயம் சார்ந்த பதிவுகள்,விவரங்களை கொண்டுள்ளது.முக்கியமாக விவசாயிக
Monday, March 26th, 2018
10:10:35
வீடு
எங்களை பற்றி
புதிதாக சேர
கேள்விகள்
வானிலை
மொழியை மாற்ற
எங்களை அழைக்க
உதவிக்கு
உள்செல்


T இல்லையேல்!நாம் இல்லை!
உள்செல்
தங்கள் பெயர்
கடவுச்சொல்
சரிபார்த்தல் பதிவு
44120


இந்த பகுதி முழுவதும் விவசாயம் மற்றும் விவ
சரிபார்த்தல் பதிவு
44120
உள்செல்
மீண்டும்மாற்று
கடவுசொல்லை மறந்துவிட்டாயா
புதிதாக சேர
முலமாக அல்லது


புதிய பயனாளர்களுக்கு
SIGNUP
அடுக்கது
மீண்டும்மாற்று

IMPLEMENTATION

CODE:

HOMEPAGE.HTML

```
        <!DOCTYPE>
<html onload="set_interval(); document.form1.exp_dat.focus();"
onKeyPress="reset_interval();" onmousemove="reset_interval();"
onclick="reset_interval();" onscroll="reset_interval();">
<head>
   <meta charset="utf-8" />
   <meta http-equiv="X-UA-Compatible" content="IE=edge">
   <title>HOMEPAGE-AGRIPRO</title></head>
   <meta name="viewport" content="width=device-width, initial-scale=1">
   <style type="text/css">
a
{
   text-decoration:none;
   color:red;
   }
body
{
background-image:url("fav1.jpg");
background-position:top;
margin: auto;
}
.logo{
width:125px;
height:125px;
margin-top:-60px;
}
#he{
font-size: 75px;
color: yellow;
}
ul{
background-color:green;
padding:10px;
width:100%;
height:30px;
text-align: center;
}
.sec
{
 padding: 10px;
width:25%;
text-align:right;
}
li{
display:inline;
```

```
font-size:23px;
padding:10px 20px 10px 15px;
}
.option{
    color:white;
    }
li.one{
    background-color: red;
   }
li:hover{
    background-color: yellow;
    font-size:25px;
 }
li.i:hover{
    text-decoration: none;
    padding:10px;
    background-color: #fff;
}
a:hover{
    color:red;
}
a.f:hover{
    color:green;
    padding:5px;
    margin-left:35px;
    text-decoration: italic;
}
table
{
font-family:Copperplate Gothic Bold;
}
footer {
  display: block;
  padding-top: 50px;
  text-align: center;
  color: #ddd;
  text-shadow: 0px -1px 0px rgb(0, 0, 0, 0.2);
  font-size:2em;
}
footer a, footer a:link {
  color: #fff;
  text-decoration: none;
}
input[type=submit],[type=reset]
{
  background-color:rgb(32,123,236);
  color:white;
  padding:10px;
  border:1px solid white;
  width:50%;
```

```
  font-size:16px;
  font-family:Showcard Gothic;
  letter-spacing:2px;
}
input[type=text],[type=password]
{
  background-color:rgb(199,199,199);
  color:black;
  padding:2px;
}
td
{
  padding:5px;
  height:10px;
 }
.dis
 {
    font-size:15px;
    background-color:white;
    padding:5px;
    border:3px solid rgb(199,199,199);
    color:blue;
 }
 .captcha
   {
    height:50px;
    width:130px;
   }
   P{
        color:white;
        font-size:65pt;
        font-family:tahoma;
    }
     .first{
        background-image:url("img1.jpg");
        background-position:right center;
        margin-top:100;
        margin-left:200;
        width:150px;
        float:left;
        padding:10px;
    }
    .second{
        background-image:url("far2.jpg");
        background-position:bottom center;
        margin-top:40;
        margin-left:-50;
        width:150px;
        float:left;
        padding:10px;
```

```
}
.third{
    background-image:url("far4.jpg");
    background-position:top right;
    margin-top:100;
    margin-left:-30;
    width:150px;
    float:left;
    padding:10px;
}
.fourth{
    background-image:url("far1.jpg");
    background-position:center left;
    margin-top:40;
    margin-left:-30;
    width:150px;
    float:left;
    padding:10px;
    }
    .fifth{
    background-image:url("far6.jpg");
    background-position:bottom center;
    margin-top:100;
    margin-left:-20;
    width:150px;
    float:left;
    padding:10px;
}
 .sixth{
    background-image:url("bea2.jpg");
    background-position:bottom center;
    margin-top:40;
    margin-left:-50;
    width:150px;
    float:left;
    padding:10px;
}
.seventh{
    background-image:url("sup1.jpg");
    background-position:bottom center;
    margin-top:100;
    margin-left:-20;
    width:150px;
    float:left;
    padding:10px;
}
.byline{
    color:blue;
    font-style:italic;
    font-size:15pt;
```

```
        margin-top:-50;
        margin-left:250;
        float:left;
    }
    .bg
    {
        background-image:url("Desert.jpg");
    }
    .e{
        height:10px;
         margin-top:-63px;
        margin-left: 975px;
    }
    #time{
        text-align: right;
        color:white;
        font-size:22px;
        margin-right:10px;
        margin-top:0px;
        padding:5px;
    }
    #date{
        width:25%;
        height:15px;
        margin-top:-30;
        margin-left:-135px;
        text-align: right;
        padding:5px;
        text-decoration:bold;
        font-size:20px;
        color:white;
    }
    #re{
        text-align: center;
        padding: 5px;
        font-size: 10px;
        color: red;
    }
</style>
<script>
        function startTime() {
        var today = new Date();
        var h = today.getHours();
        var m = today.getMinutes();
        var s = today.getSeconds();
        m = checkTime(m);
        s = checkTime(s);
        var t = setTimeout(startTime, 500);
        document.getElementById('time').innerHTML =
        h + ":" + m + ":" + s;
```

```
    }
    function checkTime(i) {
        if (i < 10) {
        i = "0" + i
        };
        return i;
    }
</script>
<body onload="startTime()">
<table style="background-color:rgb(255,255,255);width:100%;height:50%;" >
<tr>
<th style="padding:10px;border:3px groove rgb(0,0,0);text-
align:center;color:white;margin:10px;font-family:Dosis;letter-spacing:7px;">
<P class="first"> A </P>
<P class="second"> G </P>
<P class="third"> R </P>
<P class="fourth"> I </P>
<P class="fifth"> P </P>
<P class="sixth"> R </P>
<P class="seventh"> O </P>
<P class="byline">A L L   t h e 
<font color="solid blue">F A R M E R   c o m
e's</font>  h e r e  t o   help</P>
</th>
</tr>
</table>
    <div id="time"></div>
    <div id="date">
        <script type="text/javascript">

            d = new
Array("Sunday","Monday","Tuesday","Wednesday","Thursday","Friday","Saturday")
;
            m = new
Array("January","February","March","April","May","June","July","August","Septem
ber","October","November","December");

            today = new Date();
            day = today.getDate();
            year = today.getYear();

            if (year < 2000)
            year = year + 1900;

            end = "th";
            if (day==1 || day==21 || day==31) end="st";
            if (day==2 || day==22) end="nd";
            if (day==3 || day==23) end="rd";
            day+=end;
```

```
            document.write(d[today.getDay()]+", "+m[today.getMonth()]+" ");
            document.write(day+", " + year);
                    function startTime() {
                var today = new Date();
                var h = today.getHours();
                var m = today.getMinutes();
                var s = today.getSeconds();
                m = checkTime(m);
                s = checkTime(s);
                document.getElementById('time').innerHTML =
                h + ":" + m + ":" + s;
                var t = setTimeout(startTime, 500);
            }
            function checkTime(i) {
                if (i < 10) {i = "0" + i};
                return i;
            }
            function set_interval() {
  //the interval 'timer' is set as soon as the page loads
  var timeoutMins = 1000 * 1 * 15; // 15 seconds
  var timeout1Mins = 1000 * 1 * 13; // 13 seconds
  itimer=setInterval("auto_logout()",timeoutMins);

}

function reset_interval() {
  var timeoutMins = 1000 * 1 * 15; // 15 seconds
  var timeout1Mins = 1000 * 1 * 13; // 13 seconds
  //resets the timer. The timer is reset on each of the below events:
  // 1. mousemove   2. mouseclick   3. key press 4. scrolling
  //first step: clear the existing timer
  clearInterval(itimer);
  clearInterval(atimer);
  //second step: implement the timer again
  itimer=setInterval("auto_logout()",timeoutMins);
}

function auto_logout() {
  //this function will redirect the user to the logout script
  window.open('self.location', '_self');
}
</script>
                                        </script></div>
          <hr>
      <ul list-style-type="none">
        <li class="one" ><a href="homepage.html" target="top"
class="option">Home</a></li>
<li class="o"><a href="aboutus.html" class="option" target="top">About
Us</a></li>
```

```
<li class="one"><a href="register.html" class="option" target="top">Sign
Up</a></li>
<li class="o"><a href="instructions.html" class="option"
target="top">FAQ'S</a></li>
<li class="one"><a href="weather_info.html" class="option" target="top">Weather
info</a></li>
<li class="o"><a href="index_t.php" class="option" target="top" title="தமிழ்
மட்டும்(tamil only) ">change language</a></li>
<li class="one"><a href="contactus.html" class="option" target="top">Contact
Us</a></li>
<li class="o"><a href="help.html" class="option" target="top">Help</a></li>
</ul>
</hr><br><Br><br><br><br><br>
  <form name="login" method="post" class="login" target="top"
action="homepage.php">
   <table align="center" style="padding:5px;border:4px solid rgb(102,179,255);box-
shadow:0px 8px 16px 0px rgb(0,97,133);">

<th style="font-size:50px;color:rgb(24,177,76);text-align:center;font-family:Britannic
Bold;" colspan="2">
 <img style="background-image:transparent;-moz-
opacity:0.4;filter:alpha(opacity=40);" class="logo" src="ac_signin.png" /><br>
 <b><font color="green">Login</font></b></center><br><br>

</th></tr>
 <tr>
 <th height="75%" width="50%" align="left"
class="dis"><b>USERNAME</b></th>
<td><input name="username" type="text" id="userid" placeholder="Enter
USERNAME" maxlength="20" onkeyup="this.value=this.value.toUpperCase()"
pattern="[A-Za-z].{5,}"/>

</td>
</tr>
<tr>
<th height="75%" width="50%" align="left" class="dis"><b>PASSWORD</b></th>
<td><input name="password" type="password" id="password"  placeholder="Enter
PASSWORD" maxlength="4">
</td>
</tr>
<tr>
    <th height="75%" width="40%" align="left" class="dis" ><b>Verification
Code</b></th>
<td><img src="captcha.php" class="captcha" style="font-family:Showcard
Gothic;letter-spacing:2px;"><br><input type="text" name="vercode" />
</td></tr>

<td colspan="2" height="45" width="40" >
 <tab1>
<br>
```

```
 <center><b><input type="submit" name="submit" value="login" onclick="login()"
target="top"><input type="reset" value="reset" name="reset"><br></center>
<br><a href="forgotpassword.html" style="font-size:25px;" class="f"
target="top"><b>Forgot Password?</b></a>
</td>
</tr>
</table>
</form>
<tr><center> <div id="re"></div>
</P>
</body>
</script>
</body>
<footer>
        <a href="index.php" target="top">Home</a>|<a href="aboutus.html"
target="top">About us</a>|<a href="contactus.html" target="top">Contact Us</a>|
        <a href="help.html" target="top">Help</a>|
    </footer>
</html>
```

HOMEPAGE.PHP

```
<!DOCTYPE>
<html>
<body style="width:50%;margin-left:350px;margin-top:200px;">
    <head><title>login process...</title><style>
        dt:hover{
background-color:white;
padding:5px;
font-size:25px;
text-decoration:bold;
        }

        </style>
<div style="border:3px solid red;padding:5px;color:green;background-
color:rgb(234,255,239);text-align:center;font-size:30px;">
         <p style="margin-top:25px;margin-left:-150px;">
<?php
session_start();
$db=mysqli_connect("localhost","root","","admin");
$sql="SELECT * FROM user";
mysqli_query($db,$sql);
if(isset($_POST['submit']))
{
    $username=$_POST['username'];
    $password=$_POST['password'];
    $vercode=$_POST['vercode'];
    $_SESSION["errormsg1"]='Enter the USERNAME';
    $_SESSION["errormsg2"]='Enter the PASSWORD';
```

```
   $_SESSION["errormsg3"]='Verification Code should not be empty';
   $_SESSION["errormsg4"]='The USERNAME or password Incorrect!!!';?>

   <?php
    if($username=="")
   {
      if(isset($_SESSION["errormsg1"]) && $_SESSION["errormsg1"]!==0)
      {
      $error=$_SESSION["errormsg1"];
      session_unset();
      session_destroy();
      echo $error;?>
      <dl style="margin-top:-65px;margin-left:450px;width:25%;">
         <dt style="margin:5px;border-radius:30px;box-shadow: 0 0 10px
rgba(255,199,199, 20.5) inset,1px 1px 1px #CCC;border:1px solid green;">
            <a href="index.php" style="text-decoration:none;color:red;border-
radius:5px;" target="top">Go back</a></dt></dl><?php
      }
    }

   else if($password=="")
   {
     if(isset($_SESSION["errormsg2"]) && $_SESSION["errormsg2"]!==0)
      {
      $error=$_SESSION["errormsg2"];
      session_unset();
      session_destroy();
      echo $error;?>
      <dl style="margin-top:-65px;margin-left:450px;width:25%;">
         <dt style="margin:5px;border-radius:30px;box-shadow: 0 0 10px
rgba(255,199,199, 20.5) inset,1px 1px 1px #CCC;border:1px solid green;">
            <a href="index.php" style="text-decoration:none;color:red;border-
radius:5px;" target="top">Go back</a></dt></dl><?php
      }
   }
      else if($vercode=="")
   {
     if(isset($_SESSION["errormsg3"]) && $_SESSION["errormsg3"]!==0)
      {
      $error=$_SESSION["errormsg3"];
      session_unset();
      session_destroy();
      echo $error."<br>"."<br>"."<br>";
      ?>
      <dl style="margin-top:-65px;margin-left:450px;width:25%;">
         <dt style="margin:5px;border-radius:30px;box-shadow: 0 0 10px
rgba(255,199,199, 20.5) inset,1px 1px 1px #CCC;border:1px solid green;">
            <a href="index.php" style="text-decoration:none;color:red;border-
radius:5px;" target="top">Go back</a></dt></dl><?php
      }
```

```
    }
        else if(($username!="")&&($password!=""))
{

    $_SESSION['username']=$username;
    $_SESSION['password']=$password;
    $correct=$_SESSION['username']."<br>";
    $db=mysqli_connect("localhost","root","","admin");
    $check="SELECT username,pwd FROM user WHERE username='$username'
AND pwd='$password'";
    $process=(mysqli_query($db,$check));
    $r1=mysqli_fetch_array($process);
    $checkname=$r1['username'];
    $cpassword=$r1['pwd'];
?>
<div style="font-size:30px;padding:10px;">
<?php
echo $checkname."<br>";
$_SESSION['name']=$checkname;
$_COOKIE['name']=$checkname;
?></div>
<div style="color:blue;font-size:20px;">
<?php
        if(($checkname==$username)&&($cpassword==$password))
        {
            echo "Login Successful!!!"."<br>"."<br>"."<br>"."<br>"."<br>"   ;?>
            <dl style="margin-top:-65px;margin-left:250px;width:25%;">
            <dt style="margin:5px;border-radius:30px;box-shadow: 0 0 10px
rgba(255,199,199, 20.5) inset,1px 1px 1px #CCC;border:1px solid green;">
            <a href="user_account.html?name=<?php echo $checkname ?>" style="text-
decoration:none;color:red;border-radius:5px;" target="top" >Next</a>
            <?php
             }
                else{
               echo "USERNAME OR PASSWORD INCORRECT!!!TRY AGAIN"
."<br>";?>
                <dl style="margin-top:65px;margin-left:450px;width:25%;">
            <dt style="margin:5px;border-radius:30px;box-shadow: 0 0 10px
rgba(255,199,199, 20.5) inset,1px 1px 1px #CCC;border:1px solid green;">
                <a href="index.php" style="text-decoration:none;color:red;border-
radius:5px;" target="top">Go back</a></dt></dl><?php
            }
            }
         else
        {
        if(isset($_SESSION["errormsg4"]) && $_SESSION["errormsg4"]!==0)
        {
        $error=$_SESSION["errormsg4"];
        session_unset();
        session_destroy();
```

```
        echo $error."<br>"."<br>";?>
        <dl style="margin-top:-65px;margin-left:450px;width:25%;">
           <dt style="margin:5px;border-radius:30px;box-shadow: 0 0 10px
rgba(255,199,199, 20.5) inset,1px 1px 1px #CCC;border:1px solid green;">
              <a href="index.php" style="text-decoration:none;color:red;border-
radius:5px;" target="top">Go back</a></dt></dl><?php
        }
              }
        }
mysqli_close($db);
?>
</p></div></body></html>
```

Register.html

```
<!DOCTYPE html>
<html>
<head>
   <meta charset="utf-8" />
   <meta http-equiv="X-UA-Compatible" content="IE=edge">
   <title>Sign Up</title></head>
   <meta name="viewport" content="width=device-width, initial-scale=1">
   <link rel="stylesheet" type="text/css" media="screen" href="main.css" />
   <div class="header">
         <h1>FOR NEW USERS</h1>
         <h2><a href="homepage.html"><img src="home_e.gif" width='50'
height='50'></a></h2>
         <dl style="margin-top:-95px;margin-left:1150px;width:15%;">
               <dt style="margin:50px;border-radius:20px;box-shadow: 0 0 10px
rgba(255,199,199, 20.5) inset,1px 1px 1px #CCC;border:1px solid
green;padding:5px;">
                  <a href="index.php" style="text-decoration:none;color:white;border-
radius:5px;">Go back</a></dt></dl>
         </div>
   <style type="text/css">
   body
{
padding:5px;
margin-top:10px;
background-color: #FFFFF0;
font-family: Arial, Verdana, sans-serif;
font-size: 18px;
color: #00008B;
text-align: center;
}
form
{
width:30%;
padding:10px;
border:5px solid #cbcbcb;
margin:3px auto;
```

```
text-align: center;
margin-left:450px;
margin-top:10px;
}
.textfield
{
   margin-top:2px;
   height:20px;
   border:1px solid #5E6E66;
   font-size:16px;
   padding:5px;
   width:50%;
   text-align:center;
   background-color: rgb(200,191,231);
   color:black;
   text-decoration: none;
}

.textInput
{
   text-align: center;
   border:1px solid black;
   padding:5px;
   color:black;

}
.header
{
background-color:#1A3333;
text-align:center;
color:white;
width:100%;
padding:5px;
height:100px;
}
img{
    margin-top:-30px;
}
h2{
    margin-top:-25px;
    margin-left:20px;
    text-align:left;
}
.sub
{
border:1px solid blue;
padding:5px;
text-align: center;
color:blue;
font-size: 15px;
```

```
margin-left:200px;
margin-top:25px;
}
.sub:hover
{
border:2px solid green;
color:green;
font-size:18px;
background-color:rgb(187,255,204);
}
.plu
{
border:1px solid blue;
padding:5px;
text-align: center;
color:blue;
font-size: 15px;
margin-right:-200px;
margin-top:0px;
}
.plu:hover
{
border:2px solid red;
color:red;
font-size:18px;
background-color:rgb(255,170,170);
}
   </style>
   <br>

   </head>
<body>

   <div>
<form method="post" action="register.php">
   <img src="signup.gif" width='250' height='50'>
<table><tr><th class="textfield">Voter ID</th>
<td><input type="text" name="aadharnumber" class="textInput" id="aadharnumber"
maxlength="12" pattern="^+[a-z][A-Z]{3}[0-9]{7}$"></td>
</tr>
<tr><th class="textfield">User Name</th>
<td><input type="text" name="username" class="textInput" id="username"
maxlength="20" onkeyup="this.value=this.value.toUpperCase()" pattern="[A-Za-
z].{5,}"></td>
</tr>
<tr><th class="textfield">Mobile number</th>
<td><input type="text" name="mobilenumber" class="textInput" id="mobilenumber"
maxlength="10" pattern="[0-9]{10}"></td>
</tr>
<tr><th class="textfield">Password(new 4 digits Only)</th>
```

```
<td><input type="password" name="password" class="textInput" maxlength="4"
id="password"></td>
</tr>
<tr><th class="textfield">Password Confirm</th>
<td><input type="password" name="password2" class="textInput" maxlength="4"
id="password2"></td>
</tr>
<tr><td><input type="submit" name="register" value="Next"
class="sub"><br><input type="reset" value="Reset" name="reset" class="plu"></td>
  </tr>
</form>
</div>

</body>

</html>
```

Register.php

```
<!DOCTYPE>
<html>
<body style="margin-top:175px;margin-left:400px;">
   <head><title>signup process...</title><style>
      dt:hover{
background-color:white;
padding:5px;
font-size:25px;
text-decoration:bold;
      }
      .error{
         text-decoration:none;
         color:red;
         border-radius:5px;"
      }
      dl{
         margin-top:-65px;
         margin-left:400px;
         width:25%;"
      }
      dt
      {
         margin:5px;
         border-radius:30px;
         box-shadow: 0 0 10px rgba(255,199,199, 20.5) inset,1px 1px 1px #CCC;
         border:1px solid green;"
      }
      </style>
<div style="border:3px solid red;padding:5px;color:green;background-
color:rgb(234,255,239);text-align:center;font-size:30px;width:60%;">
        <p style="margin-top:25px;margin-left:-180px;">
<?php
```

```
session_start();
$db=mysqli_connect("localhost","root","","admin");
if(isset($_POST['register']))
{
   $adhno=$_POST['aadharnumber'];
   $username=$_POST['username'];
   $mobno=$_POST['mobilenumber'];
   $password=$_POST['password'];
   $password2=$_POST['password2'];
   $_SESSION["errormsg1"]='Enter the Voter ID';
   $_SESSION["errormsg2"]='Enter the Mobile number';
   $_SESSION["errormsg3"]='Enter the Password';
   $_SESSION["errormsg4"]='password and password confirm';
   $_SESSION["errormsg6"]='should be same...';
   $_SESSION["errormsg5"]='Enter the UserName';

   if(($adhno==""))
   {
      if(isset($_SESSION["errormsg1"]) && $_SESSION["errormsg1"]!==0)
      {
      $error=$_SESSION["errormsg1"];
      session_unset();
      session_destroy();
      echo $error."<br>" ?>
      <dl>
         <dt>
            <a href="register.html" class="error" target="top">Go
back</a></dt></dl><?php
      }
   }
   else if(($username==""))
   {
    if(isset($_SESSION["errormsg5"]) && $_SESSION["errormsg5"]!==0)
      {
      $error=$_SESSION["errormsg5"];
      session_unset();
      session_destroy();
      echo $error."<br>";?>
      <dl>
         <dt>
            <a href="register.html" class="error" target="top">Go
back</a></dt></dl><?php
      }
   }
   else if(($mobno==""))
   {
    if(isset($_SESSION["errormsg2"]) && $_SESSION["errormsg2"]!==0)
      {
      $error=$_SESSION["errormsg2"];
      session_unset();
```

```
        session_destroy();
        echo $error."<br><br>";?>
        <dl>
           <dt>
              <a href="register.html" class="error" target="top">Go
back</a></dt></dl><?php
        }
    }
    else if((($password=="")&&($password2=="")))
    {
      if(isset($_SESSION["errormsg3"]) && $_SESSION["errormsg3"]!==0)
        {
        $error=$_SESSION["errormsg3"];
        session_unset();
        session_destroy();
        echo $error."<br>";?>
        <dl>
           <dt>
              <a href="register.html" class="error" target="top">Go
back</a></dt></dl><?php
        }
    }
    else if($password!=$password2)
    {
        if(isset($_SESSION["errormsg4"]) && $_SESSION["errormsg4"]!==0)
        {
        $error=$_SESSION['errormsg4'];
        $error1=$_SESSION['errormsg6'];
              session_unset();
        session_destroy();
        echo $error."<br>".$error1."<br>";?><br>
        <dl>
           <dt>
              <a href="register.html" class="error" target="top">Go
back</a></dt></dl><?php
        }
    }
    else
    {
        $sql="INSERT INTO user(adhno,username,mobno,pwd) VALUES
('$adhno','$username','$mobno','$password')";
        mysqli_query($db,$sql);
        ?><div style="color:blue;font-size:18px;margin-top:20px;"><?php
        $_SESSION['username']=$username;
        $correct=$_SESSION['username'];
        echo $correct."<br>";?>
        </div>
        Sign Up Suceesful
        <br>
        <dl style="margin-top:-5px;margin-left:150px;width:55%;">
```

```
        <dt style="margin:25px;border-radius:30px;box-shadow: 0 0 10px
rgba(255,199,199, 20.5) inset,1px 1px 1px #CCC;border:1px solid green;">
            <a href="index.php" style="text-decoration:none;color:red;border-
radius:5px;font-size:22px;" target="top" >click here to view your account
details..</a></dt></dl><?php

}
      mysqli_close($db);
}
?>
</p></div></body></html>
```

CONCLUSION

The objective of this project is to create a prototype of a portal for farmers who can use the services offered by the portal. The design and the modules are created in a user-friendly way for the users. The modules are created using HTML,CSS and JAVASCRIPT and the database is stored using XAMPP server. This prototype can be extended if we plan to work on this in the future. The services can be added so that the portal can be used in many more languages. To overcome the struggle in the vast field of agriculture the technology can be used.

REFERENCES

1) The CerOrganic Web Portal < http://portal. cerorganic.eu> -A website used to meet the agricultural needs.
2) E-farmer Management System for Agrarian Service Centre in Sri Lanka-A website used in 2008 only in srilanka to maintain a good communication among the farmers and to solve their problems.
3) <http://www.myweather2.com> the weather details are refereed from this website.
4) The video section has the redirecting part to the youtube to view some videos <youtube.com>
5) The notification and the emails are sent with the help of jotform platform.