

MSDS LAB
Mini Project Report
On
SECURE SUPPLY CHAIN MANAGEMENT ON AGRICULTURE



Submitted By

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BONAFIDE CERTIFICATE

This is to certify that this is a bonafide work on “**SECURE SUPPLY CHAIN MANAGEMENT ON AGRICULTURE**” and has been submitted by Ms.R.Mounika(20B91A05Q3), Ms.Zafreen(20B91A05S3), in partial fulfillment of the requirements for the award of the Degree of Bachelor of Technology in Computer Science and Engineering, during the academic year 2022-2023. The candidate worked right under my Supervision and guidance.

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Finally, yet importantly, I would like to express my heart full thanks to my beloved parents for their blessings, my friends/classmates for their help and wishes for the successful completion of this project.

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1. ABSTRACT

India considers agriculture as a crucial sector since it provides livelihood for approximately 70% of households and 10% of urban inhabitants on average. In order to reach the end consumer, agricultural commodities undergo several stages in the supply chain. These stages involve harvesting, processing, storage, transportation, and marketing. Each stage is crucial for the successful delivery of high-quality products to the market.

Due to the involvement of middlemen, farmers in India often struggle to cover their basic expenses and may not receive fair prices for their products. This can result in significant financial losses, leaving farmers unable to repay loans and leading to severe economic distress, sometimes resulting in suicide. Recent research has indicated that farmer suicides make up a significant proportion of all suicides in India, accounting for 11.2% of cases.

To address these challenges faced by farmers in India, a website has been developed with the aim of establishing a direct link between farmers and consumers. By facilitating direct transactions, the website seeks to mitigate the issues caused by middlemen and provide greater financial stability to farmers while also ensuring consumers receive high-quality, locally sourced agricultural products.

Supply chain management refers to the coordination and oversight of the various processes involved in the movement of goods and services, from the sourcing of raw materials to the production of finished products. These processes involve a range of activities such as transportation, storage, and transformation, all of which are essential in delivering high-quality products to the end consumer.

In general, the supply chain for agriculture can be divided into three main stages: first, the movement of crops from farms to intermediate storage facilities; second, the transportation of these crops from storage facilities to processing plants for transformation into finished products; and finally, the distribution of these products from processing plants to clients and end consumers.

2. MODULES

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3. SOFTWARE REQUIREMENTS

- Programming language: Php, Javascript,Html,Css
- Server: XAMPP
- Database: MYSQL

4. CODE

USER CODE:

```
<?php
    include 'includes/header.php';
    if(isset($_SESSION['suname']))
    {
        header("Location: http://localhost/SupplyChain/index.php");
    }
    include 'includes/left-bar.php';
?>

<div class="col-md-10" style="background: url('images/log1.jpg') no-repeat;background-size:
100%;min-height:570px;">
    <br/><br/><br/><br/><br/><br/><br/><br/>
    <center>
        <form action="user/loginHandler.php" name="reg" onSubmit="return validate()">
            <p><input type="text" required name="uname" style="color:black;font-
weight:bold;" placeholder="Username "></p>
            <p><input type="password" required name="pass" style="color:black;font-
weight:bold;" placeholder="Password"></p>
            <p class="remember_me">
                <a href="register.php">
                    <label style="color:white;">
                        don't have an account
                    </label>
                </a>
            </p>
            <p class="submit"><input class="btn btn1" type="submit" name="commit"
style="color:black;font-weight:bold;" value="Login"></p>
        </form>
    </center>
</div>
</div>

<?php include 'includes/footer.php'?>
```

NEW REGISTRATION:

```
<script language="javascript">
function validate()
{
    var pass=document.reg.password.value;
    var cpass=document.reg.password_confirmation.value;
```

```

        if(pass!=cpass)

        {
            window.alert("Password and Confirmed password are not same!");
            document.reg.password.focus();
            return false;
        }
    }
</script>
<?php
    include 'includes/header.php';
    if(isset($_SESSION['suname']))
    {
        header("Location: http://localhost/SupplyChain/index.php");
    }
    include 'includes/left-bar.php';
?>

<div class="col-md-10" style="background: url('images/rege.jpg') no-repeat;background-size:
100%;min-height:570px;">
    <br/>
    <br/><br/><br/><br/>
    <div class="container">
    <div class="row centered-form">
    <div class="col-xs-12 col-sm-8 col-md-4 col-sm-offset-2 col-md-offset-4">
        <div class="panel panel-default">
            <div class="panel-heading">
                <h3 class="panel-title" style="color:black;font-weight:bold;">New
Registration </small></h3>
            </div>
            <div class="panel-body" style="background-
color:#F6DDCC">
                <form role="form" action="user/signupHandler.php" name="reg"
onSubmit="return validate()" method="post" enctype="multipart/form-data">
                    <div class="row">
                        <div class="col-xs-6 col-sm-6 col-md-6">
                            <div class="form-group">
                                <input type="text" required name="first_name"
id="first_name" class="form-control input-sm" placeholder="First Name" style="color:black;font-
weight:bold;">
                            </div>
                        </div>
                    </div>

```

```

        <div class="col-xs-6 col-sm-6 col-md-6">
            <div class="form-group">
                <input type="text" required
name="last_name" id="last_name" class="form-control input-sm" placeholder="Last Name"
style="color:black;font-weight:bold;">

```

```

            </div>

```

```

        </div>

```

```

    </div>

```

```

        <div class="form-group">
            <input type="text" name="uname" required
id="email" class="form-control input-sm" placeholder="User Name" style="color:black;font-
weight:bold;">

```

```

        </div>

```

```

        <div class="form-group">
            <input type="email" name="email" required
id="email" class="form-control input-sm" placeholder="Email Address" style="color:black;font-
weight:bold;">

```

```

        </div>

```

```

    </div>

```

```

        <div class="col-xs-6 col-sm-6 col-md-6">
            <div class="form-group">
                <input type="password" required
name="password_confirmation" id="password_confirmation" class="form-control input-sm"
placeholder="Confirm Password" style="color:black;font-weight:bold;">

```

```

            </div>

```

```

        </div>

```

```

    </div>

```

```

        <input type="submit" value="Register" class="btn btn-info
btn-block" style="color:black;font-weight:bold;">

```

```

</form>

```

```

</div></div></div></div></div></div>

```

```

<?php include 'includes/footer.php'?>

```

FARMER LOGIN:

```
<?php
include 'includes/header.php';
if(isset($_SESSION['suname']))
{
    header("Location: http://localhost/SupplyChain/index.php");
}
include 'includes/left-bar.php';
?>

<div class="col-md-10" style="background: url('images/admin1.jpg') no-repeat;background-size:
100%;min-height:570px;">
    <br/><br/><br/><br/><br/><br/><br/><br/>
    <center>
        <form action="admin/adminLoginHandler.php" name="reg" onSubmit="return
validate()">
            <p><input type="text" required name="uname" style="color:black;font-
weight:bold;" placeholder="Username or Email"></p>
            <p><input type="password" required name="pass" style="color:black;font-
weight:bold;" placeholder="Password"></p>
            <p class="remember_me">
                <a href="register.php" style="color:red;">
                    <label>
                        don't have an account
                    </label>
                </a>
            </p>
            <p class="submit"><input class="btn btn1" type="submit" name="commit"
style="color:black;font-weight:bold;" value="Admin Login"></p>
        </form>
    </center>
</div>
</div>
<?php include 'includes/footer.php'?>
```

ADDING NEW PRODUCT:

```
<?php
include 'includes/header.php';
include 'includes/left-bar.php';
include 'config/database.php';
?>
```

```
<div class="col-md-10" style="background: url('images/bbb.jpg') no-repeat;background-size: 300%;">
```

```
<br/>
```

```
<div class="col-md-11" style="min-height:570px;">
```

```
<br/><br/><br/><br/>
```

```
<div style="background:gray;">
```

```
<br/><br/><br/>
```

```
<div>
```

```
<center><h4><u>Enter the details for adding the product </u></h4></center>
```

```
<?php
```

```
echo "<form action='admin/addProduct.php' method='post'
```

```

enctype='multipart/form-data'>";
        echo "<center><table>";
        echo "<tr><td>Name of the product : </td><td><input
type='textbox' style='color:black;' name='pname'/></td></tr>";
        echo "<tr><td>Price of the product:</td><td><input
type='textbox' style='color:black;margin-top:10px;'
name='price'/></td></tr>";
        echo "<tr><td>Select the type :</td><td><select
style='color:black;margin-top:10px;' name='type'>";
            echo
            "<option
value='1'>fruits</option><option
value='2'>vegetables</option><option
value='3'>Rice</option><option value='4'>crops</option>";
            echo "</select></td></tr>";
            echo
            "<tr><td>Select the image :</td><td><input
style='color:black;margin-top:10px;' type='file' name='image'
size='30'/></td></tr>";
            echo
            "</table>";
            echo
            "<br>";
            echo
            "<br>";
            echo "<input type='submit' class='btn btn1' value='Add
Product'/>";echo "</form></center>";
        ?>
    <br/><br/><br/>
</div>
</div>
<?php include 'includes/adminDashboardMenu.php';?>
<?php include 'includes/footer.php'?>

```

MAKE PAYMENT:

```
<?php
include
'includes/header.p
hp';      include
'includes/left-
bar.php'; include
'config/database.p
hp';

?>

<div class="col-md-10" style="background:#D5D8DC;min-height:570px;">
    <br/>
<form method = "POST">
    <label for="fname">Product Total</label>
    <input type="text" id="fname" name="pname" value="<?php echo $total; ?>">

    <label for="lname">Credit Card Number</label>
    <input type="text" id="lname" name="cardno" placeholder="Your Credit Card
    Number..">

    <label for="country">Expiry Date</label>
    <input type="text" id="lname" name="edate" placeholder="DD/MM">
```

PLOT ANALYSIS:

```
import pandas as pd
import
matplotlib.pyplot
as plt from
google.colab
import drive
drive.mount('/cont
ent/drive')
data=pd.read_csv("/content/drive/My
Drive/datasets/datafile.csv")print(data)
years = ['2015', '2016', '2017', '2018', '2019', '2020', '2021', '2022']
cols=['Rice', 'Wheat', 'Coarse Cereals', 'Pulses', 'Vegetables ', 'Fruits', 'Milk', 'Eggs,
Fish and Meat', 'Oilseeds', 'Sugarcane ', 'Fibers', 'All Agriculture']
df = pd.DataFrame({y:[data[x][0] for x in years ] for y in cols})
cols=['Rice', 'Wheat', 'Coarse Cereals', 'Pulses', 'Vegetables ', 'Fruits', 'Milk', 'Eggs,
Fish and Meat', 'Oilseeds', 'Sugarcane ', 'Fibers', 'All Agriculture']

def call(k):
```

```

years = ['2015', '2016', '2017', '2018', '2019', '2020', '2021', '2022']
cols=['Rice', 'Wheat', 'Coarse Cereals', 'Pulses', 'Vegetables ', 'Fruits', 'Milk', 'Eggs,
Fish and Meat', 'Oilseeds', 'Sugarcane ', 'Fibers', 'All Agriculture']

```

```

# Create a dataframe from the data
df = pd.DataFrame({y:[data[x][cols.index(y)] for x in years ] for y in cols})
df['Years']=years
# Set the index of the dataframe to
be the yearsdf.set_index('Years',
inplace=True)
# Create
the area
plotcolors
=
['orange',
'green','yellow','pink','blue','black','violet','red','grey','purple','violet','red','gr
ey','purple']df[k].plot(kind='line', stacked=False, color=colors[cols.index(k)])
# Set the title and
axis labels
plt.title('Prices
over the years')
plt.xlabel('Years')
plt.ylabel('Prices')
plt.legend(loc='center left', bbox_to_anchor=(1, 0.5))

```

```

#
Sho
w
the
plot
plt.s
ho
w()
for i in cols:
    call(i)

```

```

def all():
    years = ['2015', '2016', '2017', '2018', '2019', '2020', '2021', '2022']
    cols=['Rice', 'Wheat', 'Coarse Cereals', 'Pulses', 'Vegetables ', 'Fruits', 'Milk', 'Eggs,
Fish and Meat', 'Oilseeds', 'Sugarcane ', 'Fibers', 'All Agriculture']

```

```

# Create a dataframe from the data
df = pd.DataFrame({y:[data[x][cols.index(y)] for x in years ]
for y in cols})df['Years']=years

```



```

# Set the index of the dataframe to
be the yearsdf.set_index('Years',
inplace=True)
# Create
the area
plotcolors
=
['orange',
'green','yellow','pink','blue','black','violet','red','grey','purple','violet','red','gr
ey','purple']df.plot(kind='line', stacked=False, color=colors)
# Set the title and
axis labels
plt.title('Prices
over the years')
plt.xlabel('Years')
plt.ylabel('Prices')
plt.legend(loc='center left', bbox_to_anchor=(1, 0.5))
plt.show()all()

```

UML DIAGRAM:

UML is to define a standard way to visualize the way a system has been designed and it is similar to blueprints used in other fields of engineering. It is a general purpose, development modelling language in the field of software engineering that is intended to provide a standard way to visualize the design of a system.

Use case Diagram:

A use case is a list of steps that defines interaction between an actor and the system. The functionality of a system is described from the point of view of a user. The use case diagram is shown in Fig

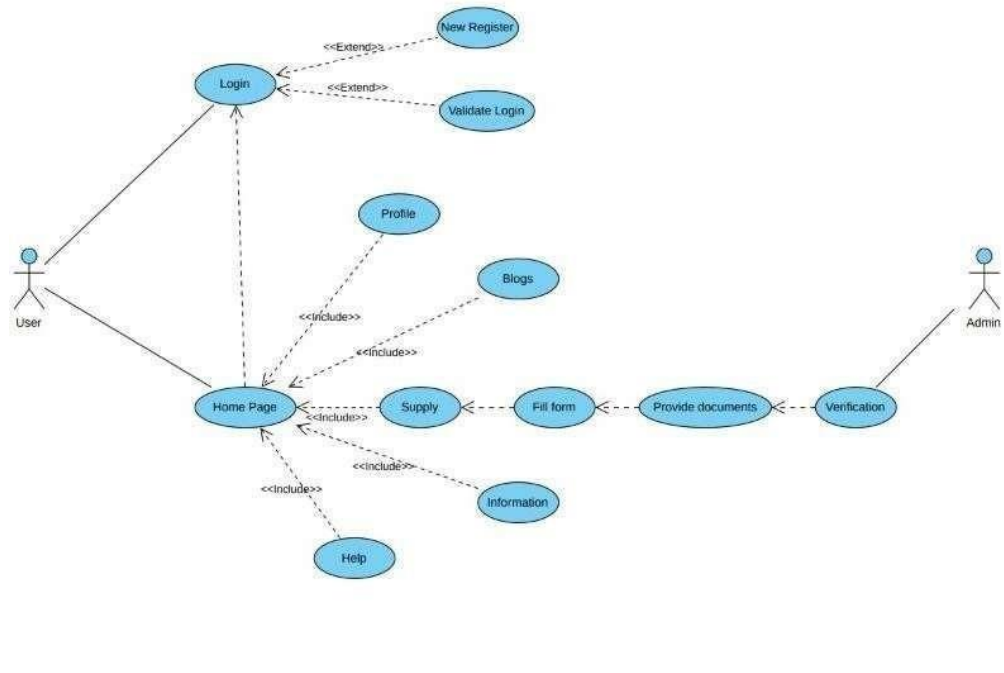


Fig USE CASE DIAGRAM

STATE CHART DIAGRAM:

State chart diagram describes the flow of control from one state to another state. States are defined as a condition in which an object exists and it changes when some event is triggered. The most important purpose of State chart diagram is to model the lifetime of an object from creation to termination.

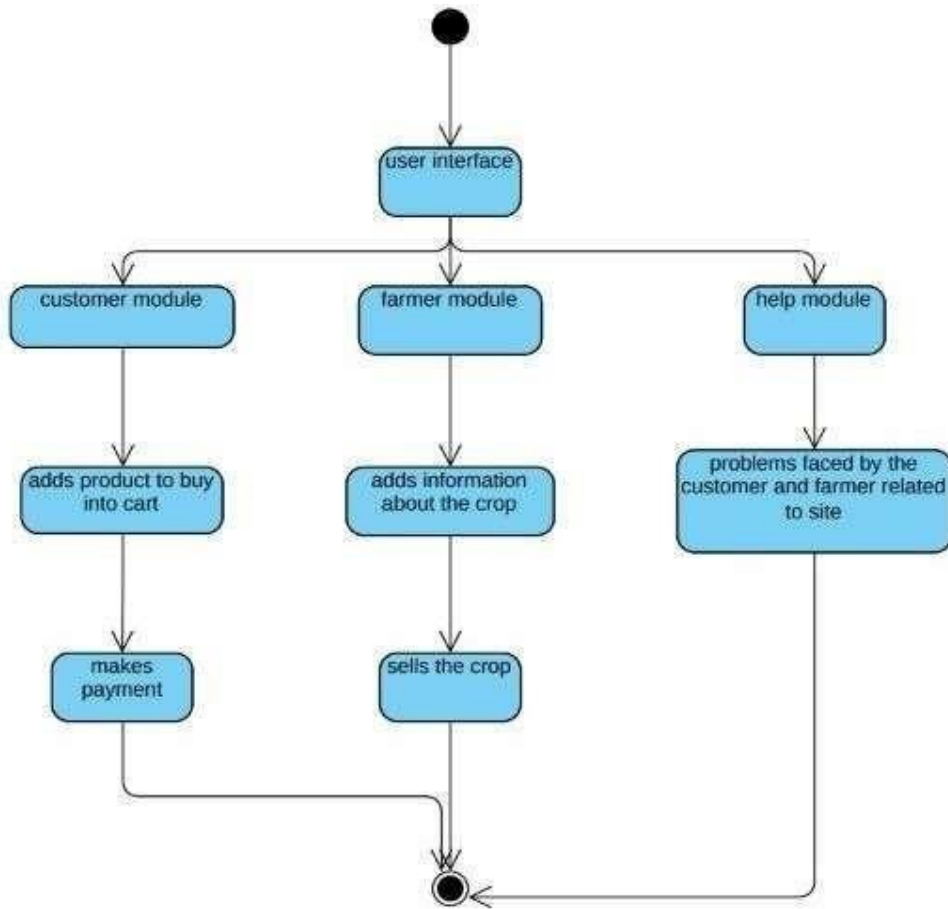


Fig STATE CHART DIAGRAM

ACTIVITY DIAGRAM:

Activity diagrams show the procedural flow of control between class objects, along with organizational processes. These diagrams are made of specialized shapes, then connected with arrows. The use case diagram is shown in Fig

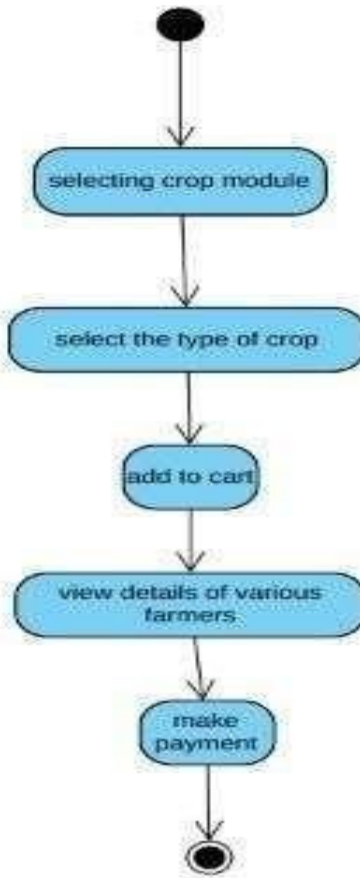


Fig Activity Diagram

SEQUENCE DIAGRAM

A sequence diagram or system sequence diagram (SSD) shows process interactions arranged in timesequence in the field of software engineering. The sequence diagram is shown in Fig

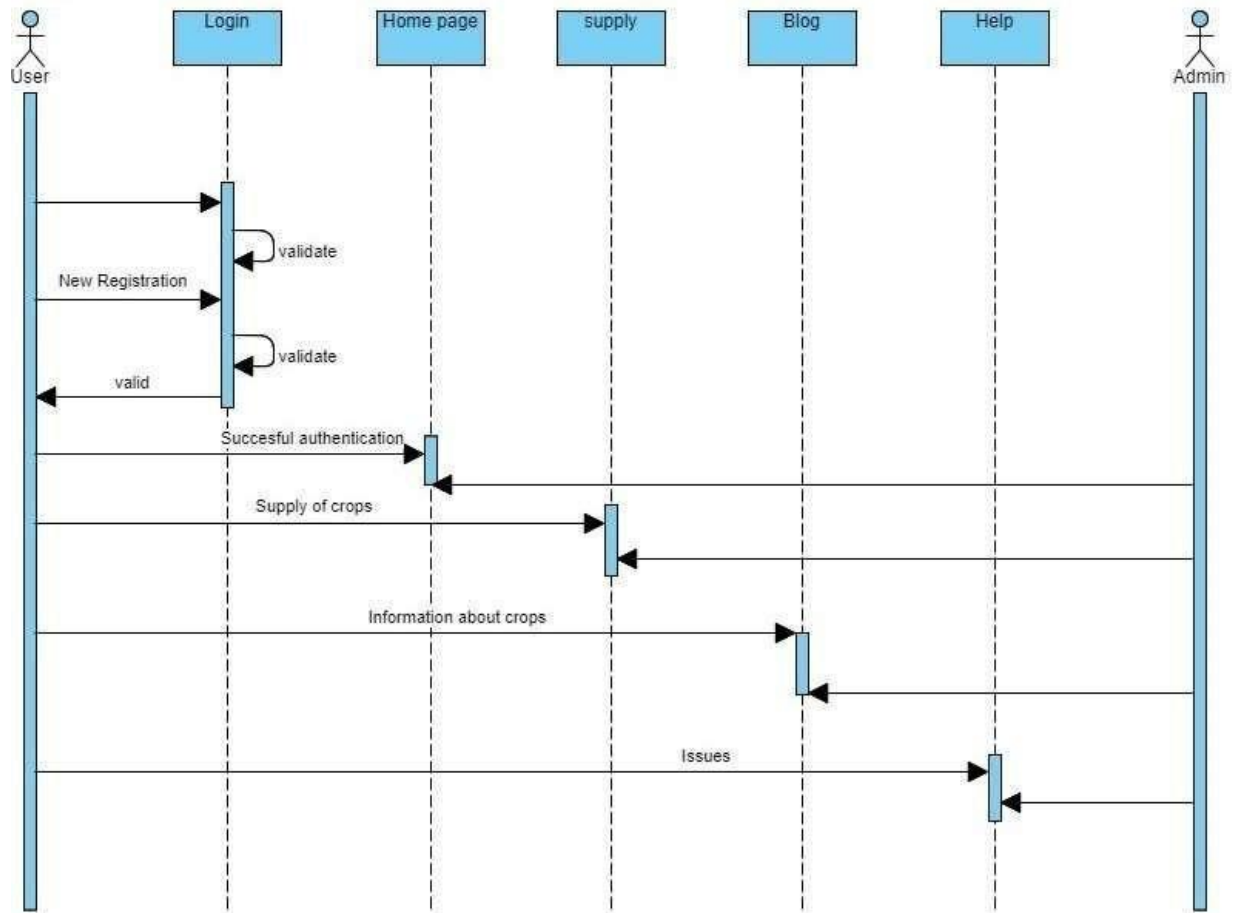
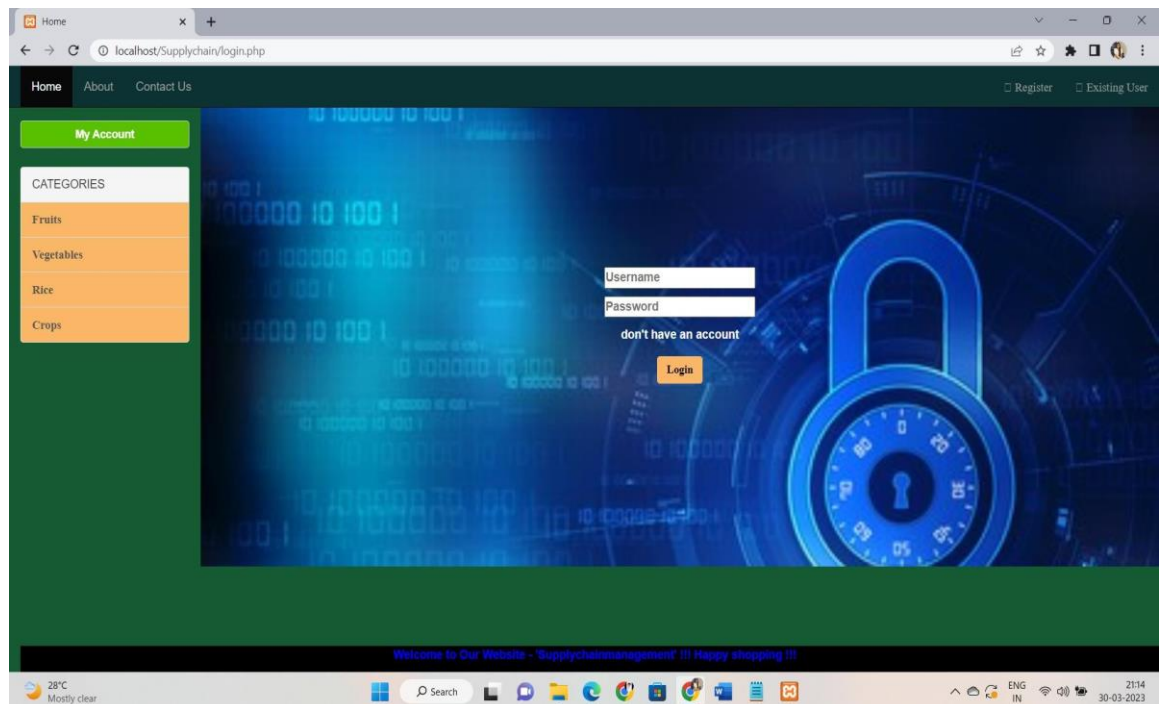
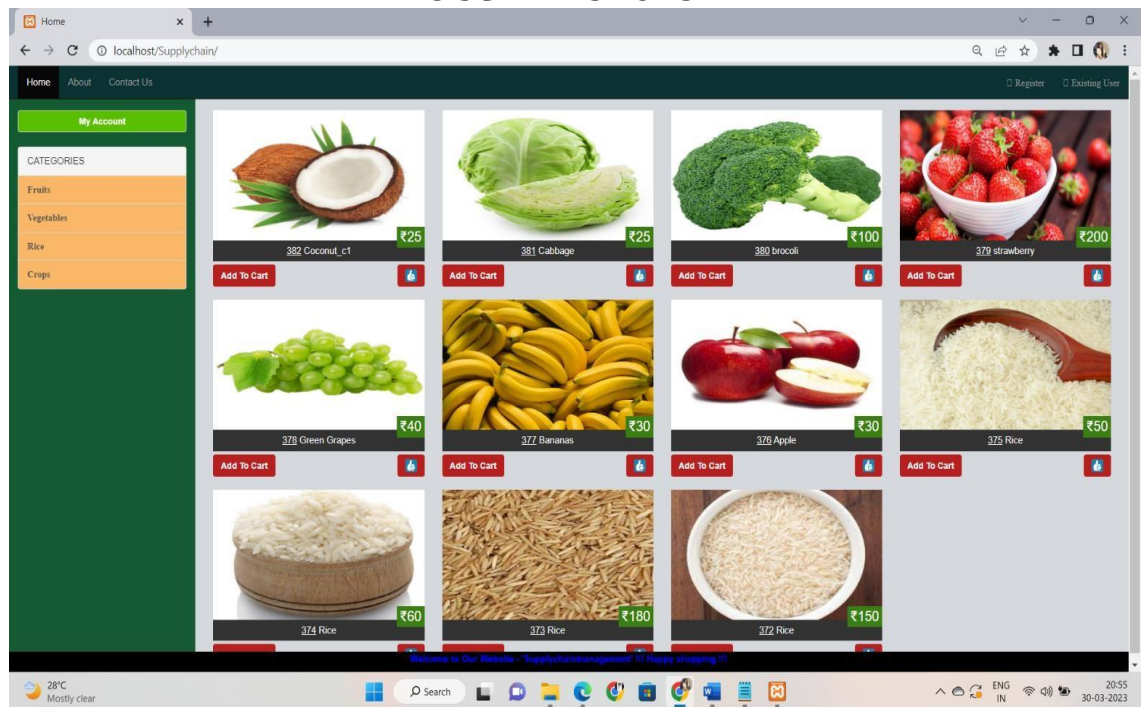
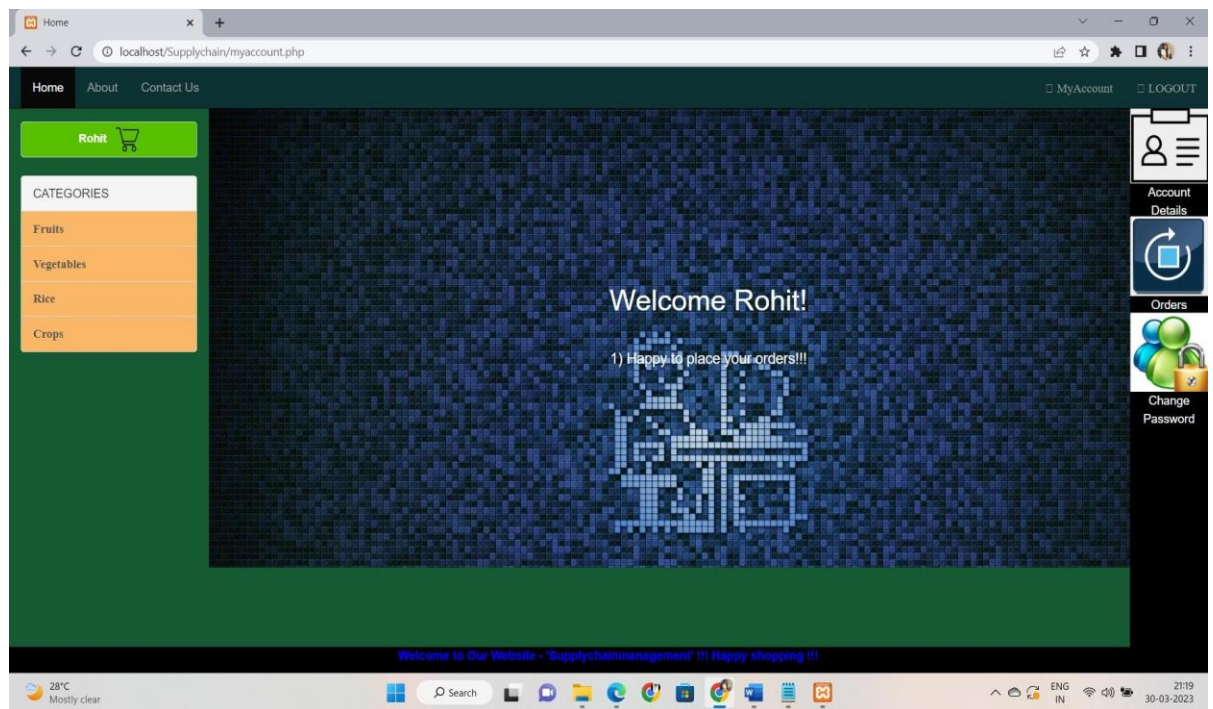
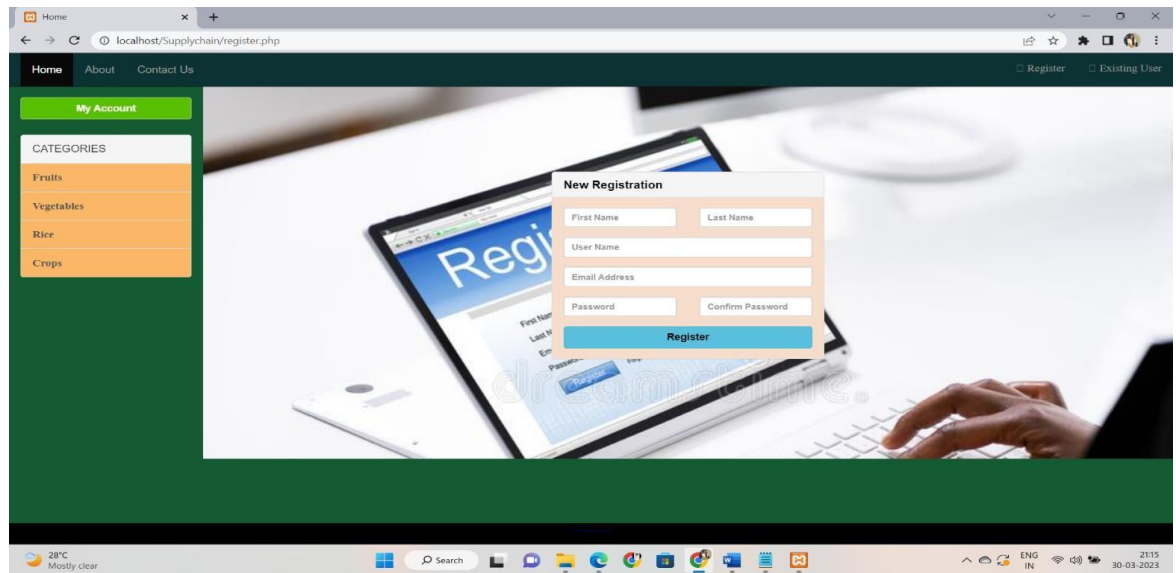


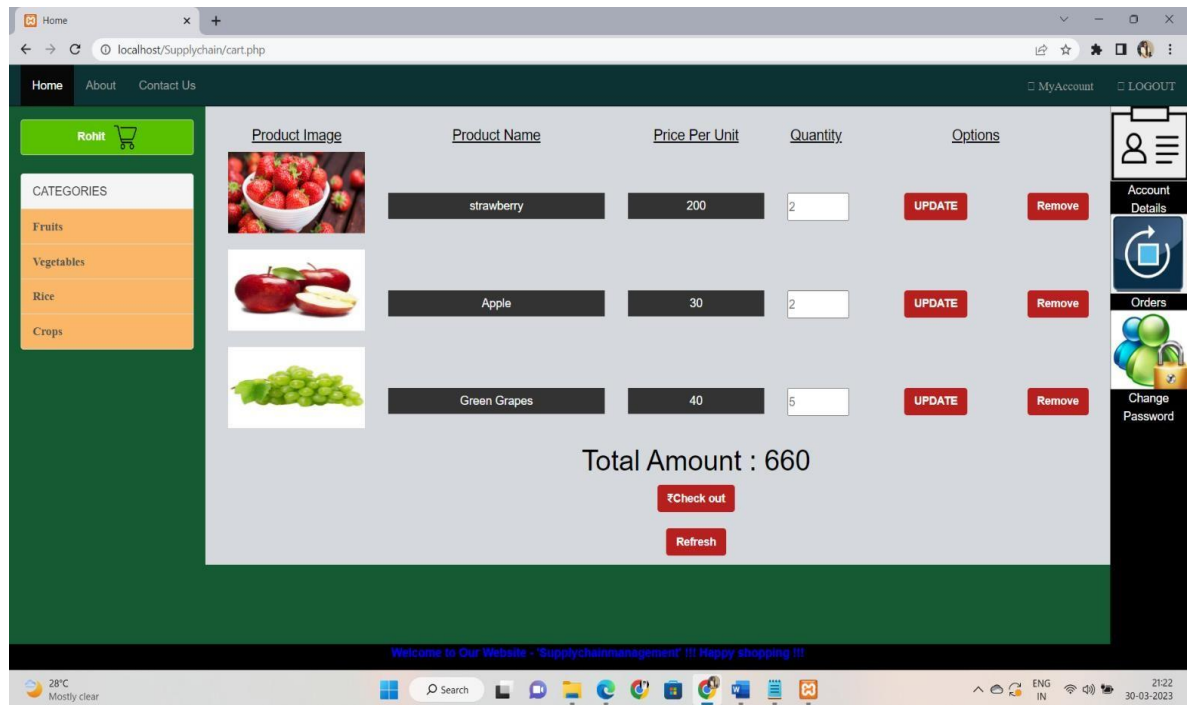
Fig Sequence Diagram

5.SCREENSHOTS

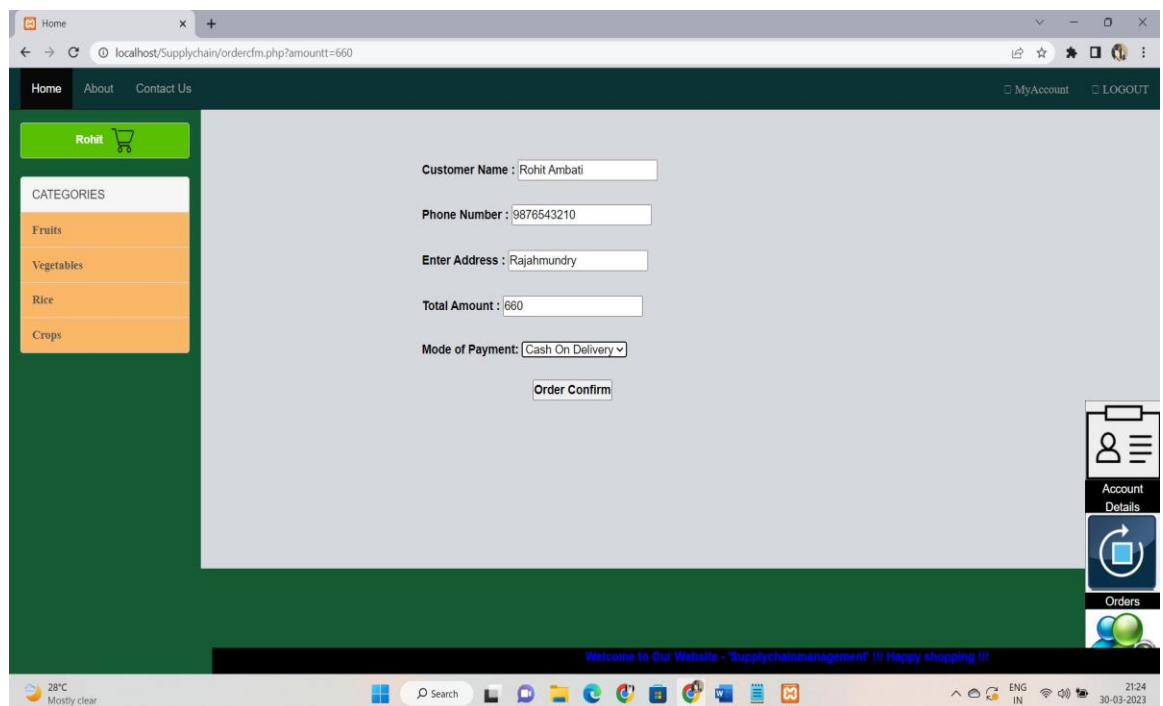




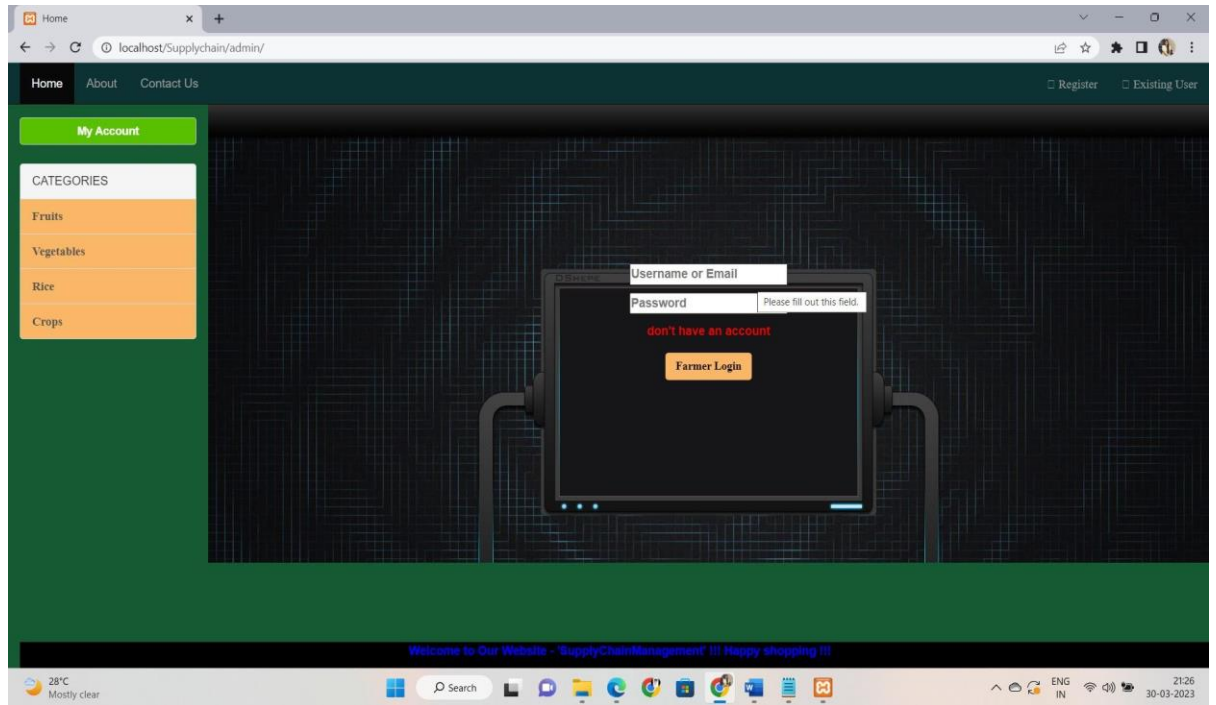
The Following will be the Cart Page:



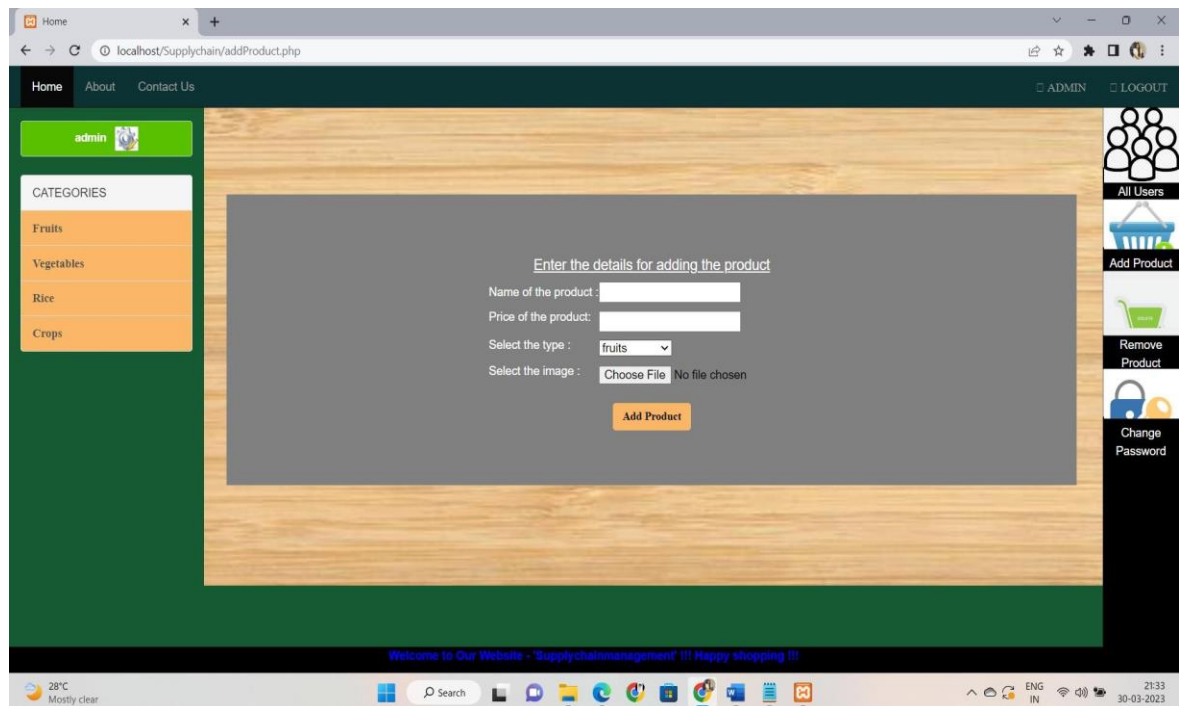
The Following Will be the Payment Page:



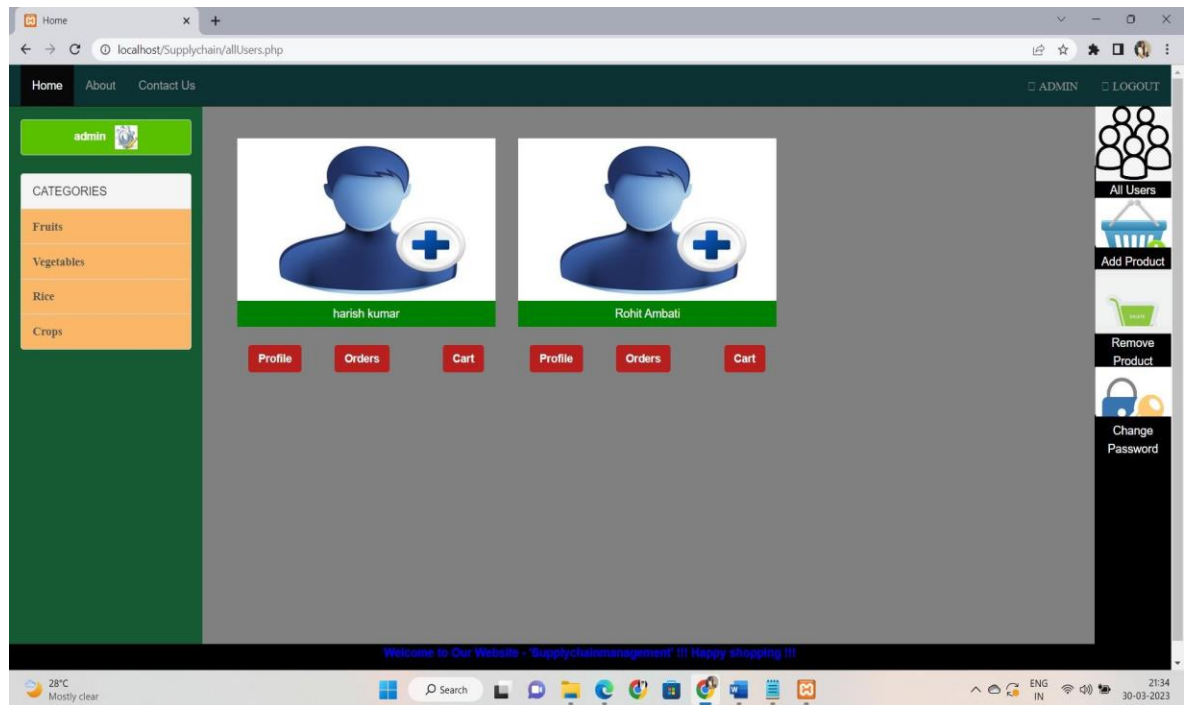
The Following Will be the Farmer Login Page:



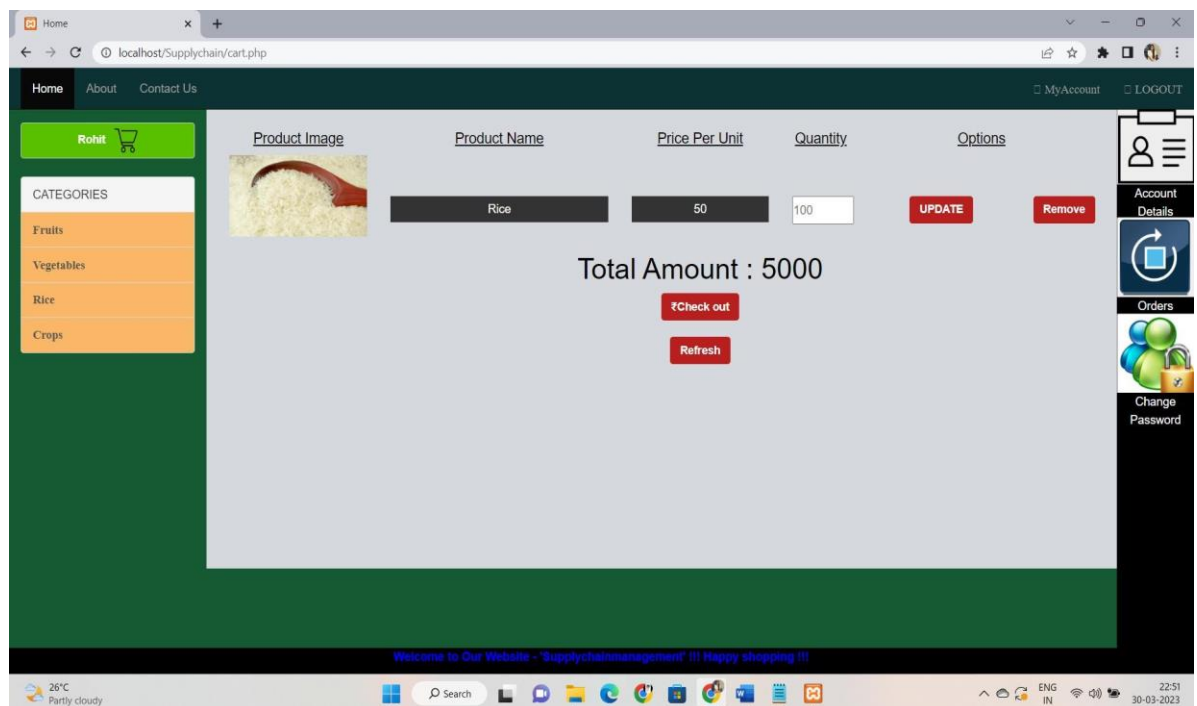
The Following Will be the Product Adding Page:



The Following Will be the number of existing users:



The Following Image Shows That the Rice Is Being Sold at Rs 5000 Per Quintal:



The Following Image shows That The Bananas Were Being Sold at Rs 3000 per Quintal:

