

A Project Report On

### **ONLINE SHOPPING MANAGEMENT SYSTEM**

Submitted by

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For the Course

# CAPGEMINI CERTIFIED FULL STACK DEVELOPER JUN-OCT(2021)

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#### **ABSTRACT**

The project titled Shopping Management System is software for monitoring and controlling the processes in a Shopping. The project "Shopping Management System" is developed in java which mainly focuses on basic operations in a shopping like viewing the products, adding products to the virtual shopping cart, buying the products, cancelling orders, messaging a query, making online transaction etc.., "Shopping Management System" is a windows application written for 32-bit Windows operating systems, designed to help users maintain and organize shopping mall. This software is easy to use for both beginners and advanced users.

# INTRODUCTION

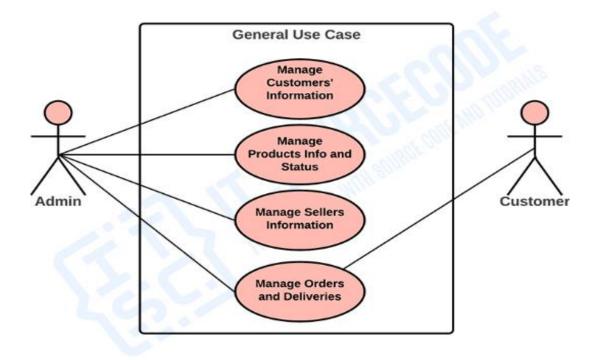
The purpose of the application is automation of shopping, it provide facilities to the customers to search for the required item and it allows the administrator to provide the products and can create & update the product details. The software Shopping Management System has following main modules.   □ Insertion to Database Module- User friendly input screen.
☐ Extracting from Database Module – Attractive Output Screen.
$\square$ Report Generation Module – Available products list, delivered orders and cancelled orders.
☐ Search Facility Module – Search for the required products.
$\Box$ Shopping Module – Adding products to the virtual shopping cart and proceeding to delivery.
$\hfill \Box$ Updating Information Module – Personal profile information such as address , phone number, password and security questions.
☐ Queries Module – Messaging the feedback and Queries.

## **OPERATION ENVIRONMENT**

PROCESSOR	INTEL CORE PROCESSOR OR
	BETTER PERFORMANCE
OPERATING	WINDOWS VISTA ,WINDOWS7, UBUNTU
SYSTEM	
MEMORY	1GB RAM OR MORE
HARD DISK SPACE	MINIMUM 3 GB FOR DATABASE
	USAGE FOR FUTURE
DATABASE	MY SQL

### **USECASE DIAGRAM**

## ONLINE SHOPPING SYSTEM



USE CASE DIAGRAM

#### **CODE**

#### **CONNECTION PROVIDER**

```
package project;
import java.sql.*;
public class ConnectionProvider {
public static Connection getCon()
{
    try
    {
        Class.forName("com.mysql.cj.jdbc.Driver");
        Connection
        con=DriverManager.getConnection("jdbc:mysql://localhost:3306/ospjsp","root","root");
    return con;
    }
    catch(Exception e)
    {
        System.out.println(e);
        return null;
    }
}
```

#### SHOPPING.JAVA

```
package project;
public class Shopping {
      private String name;
      private String email;
      private int mobilenumber;
      private String securityquestion;
      private String answer;
      private String password;
      public Shopping() {
             super();
      public String getName() {
             return name;
      public void setName(String name) {
             this.name = name;
      public String getEmail() {
             return email;
      public void setEmail(String email) {
             this.email = email;
      public int getMobilenumber() {
             return mobilenumber;
      public void setMobilenumber(int mobilenumber) {
             this.mobilenumber = mobilenumber;
      public String getSecurityquestion() {
             return securityquestion;
      }
      public void setSecurityquestion(String securityquestion) {
             this.securityquestion = securityquestion;
      public String getAnswer() {
             return answer;
      public void setAnswer(String answer) {
             this.answer = answer;
      }
      public String getPassword() {
             return password;
      public void setPassword(String password) {
             this.password = password;
      }
}
```

#### **SIGNUP:**

```
<!DOCTYPE html>
<html>
<head>
<link rel="stylesheet" href="css/signup-style.css">
<title>Signup</title>
</head>
<body>
<div id='container'>
<div class='signup'>
<form action="signupAction.jsp" method="post">
<input type="text" name="name" placeholder="Enter Name" required>
<input type="email" name="email" placeholder="Enter Email" required>
<input type="text" name="mobilenumber" placeholder="Enter Mobile number" required>
<select name="securityquestion" required>
<option value="what was your first car" >what was your first car
<option value="what is name of your pet" >what is name of your pet
<option value="what is your school name" >what is your school name
<option value="what is the name of your hometown" >what is the name of your
hometown</option>
</select>
<input type ="text" name="answer" placeholder="enter answer" required>
<input type ="password" name="password" placeholder="enter password" required>
<input type= "submit" value="signup">
</form>
<h2><a href="login.jsp">Login</a></h2>
</div>
<div class='whysign'>
<%
String msg=request.getParameter("msg");
if("valid".equals(msg))
{
%>
<h1>Successfully Registered</h1>
<%
if("invalid".equals(msg))
<h1>Some thing went wrong try again</h1>
<% }
%>
<h2>VS2 Online Shopping</h2>
WELCOME TO VS² ONLINE SHOPPING
</div>
</div>
</body>
    </html>
```

#### LOGIN

```
<!DOCTYPE html>
<html>
<head>
<link rel="stylesheet" href="css/signup-style.css">
<title>Login</title>
</head>
<body>
<div id='container'>
<div class='signup'>
<form action="loginAction.jsp" method="post">
<input type="email" name="email"placeholder="Enter Email" required>
<input type="password" name="password"placeholder="Enter Password" required>
<input type="submit" value="login">
</form>
<h2><a href="signup.jsp">SignUp</a></h2>
<h2><a href="forgotPassword.jsp">Forgot Password?</a></h2>
</div>
<div class='whysignLogin'>
<%
String msg=request.getParameter("msg");
if("noteexist".equals(msg))
%>
<h1>Incorrect Username or Password</h1>
<%}%>
<%if("invalid".equals(msg))</pre>
<h1>Some thing Went Wrong! Try Again !</h1>
<%}%>
<h2>VS² Online Shopping</h2>
WELCOME TO VS<sup>2</sup> ONLINE SHOPPING
</div>
</div>
</body>
</html>
```

#### **ADDNEWPRODUCT**

```
<%@page import="project.ConnectionProvider"%>
<%@page import="java.sql.*"%>
<%@page import="java.sql.Connection"%>
<%@include file="adminHeader.jsp" %>
<%@include file="../footer.jsp" %>
<html>
<head>
<link rel="stylesheet" href="../css/addNewProduct-style.css">
<title>Add New Product</title>
</head>
<body>
String msg=request.getParameter("msg");
if("done".equals(msg))
%>
<h3 class="alert">Product Added Successfully!</h3>
if("wrong".equals(msg))
{
%>
<h3 class="alert">Some thing went wrong! Try Again!</h3>
<%} %>
<%
int id=1;
try
Connection con=ConnectionProvider.getCon();
Statement st=con.createStatement();
ResultSet rs=st.executeQuery("select max(id) from product");
while(rs.next())
id=rs.getInt(1);
id=id+1;
}
catch(Exception e)
}
<form action="addNewProductAction.jsp" method="post">
<h3 style="color: yellow;">Product ID:<%out.println(id); %> </h3>
<input type="hidden" name="id" value="<%out.println(id); %>">
<div class="left-div">
```

```
<h3>Enter Name</h3>
<input class="input-style"type="text" name="name" placeholder="Enter Name"required>
<hr>>
</div>
<div class="right-div">
<h3>Enter Category</h3>
<input class="input-style"type="text" name="category" placeholder="Enter</pre>
Category"required>
<hr>>
</div>
<div class="left-div">
<h3>Enter Price</h3>
<input class="input-style"type="number" name="price" placeholder="Enter Price"required>
<hr>>
</div>
<div class="right-div">
<h3>Active</h3>
<select class="input-style" name="active">
<option value="Yes">Yes</option>
<option value="No">NO</option>
</select>
<hr>>
</div>
<button class="button">Save</button><i class='far fa-arrow-alt-circle-right'></i>
</body>
</body>
    </html>
```

#### ALLPRODUCTEDIT

```
<%@page import="project.ConnectionProvider"%>
<%@page import="java.sql.*"%>
<%@page import="java.sql.Connection"%>
<%@include file="adminHeader.jsp" %>
<%@include file="../footer.jsp" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"</pre>
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Home</title>
<style>
h3
{
color: yellow;
text-align: center;
</style>
</head>
<body>
<div style="color: white; text-align: center; font-size: 30px;">All Products & Edit
Products <i class='fab fa-elementor'></i></div>
String msg=request.getParameter("msg");
if("done".equals(msg))
%>
<h3 class="alert">Product Successfully Updated!</h3>
<%} %>
<%
if("wrong".equals(msg))
{
%>
<h3 class="alert">Some thing went wrong! Try Again!</h3>
<thead>
ID
Name
Category
<i class="fa fa-inr"></i> Price
Status
Edit <i class='fas fa-pen-fancy'></i>
</thead>
<%
try{
Connection con=ConnectionProvider.getCon();
Statement st=con.createStatement();
ResultSet rs=st.executeQuery("select * from product");
```

```
while(rs.next())
{
%>
<%=rs.getString(1) %>
<%=rs.getString(2) %>
<%=rs.getString(3) %>
<i class="fa fa-inr"></i><mers.getString(4) %> 
<%=rs.getString(5) %>
<a href="editProduct.jsp?id=<%=rs.getString(1) %>">Edit <i class='fas fa-pen-
fancy'></i></a>
<%
}
}
catch(Exception e)
System.out.println(e);
}%>
<br>
<br>
<br>
</body>
   </html>
```

#### **HOME**

```
<%@page import="project.ConnectionProvider"%>
<%@page import="java.sql.*"%>
<%@page import="java.sql.Connection"%>
<%@ include file="header.jsp"%>
<%@ include file="../footer.jsp"%>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Home</title>
<style>
h3
{
color: yellow;
text-align: center;
</style>
</head>
<body>
<div style="color: white; text-align: center; font-size: 30px;">Home <i class="fa fa-</pre>
institution"></i></div>
<%
String msg=request.getParameter("msg");
if("added".equals(msg))
{
%>
<h3 class="alert">Product added successfully!</h3>
<%}%>
<%
if("exist".equals(msg))
{
%>
<h3 class="alert">Product already exist in you cart! Quantity increased!</h3>
<%} %>
<%
if("invalid".equals(msg))
<h3 class="alert">Some thing went wrong! try again</h3>
<%} %>
<thead>
ID
Name
Category
<i class="fa fa-inr"></i> Price
Add to cart <i class='fas fa-cart-plus'></i>
```

```
</thead>
<%
try{
Connection con=ConnectionProvider.getCon();
Statement st=con.createStatement();
ResultSet rs=st.executeQuery("select *from product where active='Yes'");
while(rs.next())
{
%>
<%=rs.getString(1) %>
<%=rs.getString(2) %>
<%=rs.getString(3) %>
<i class="fa fa-inr"></i><%=rs.getString(4) %>
<a href="addToCartAction.jsp?id=<%=rs.getString(1) %>">Add to cart <i class='fas fa-
cart-plus'></i></a>
<%
}}
catch(Exception e)
System.out.println(e);
}%>
<br>
<br>
<br>
</body>
   </html>
```

#### **MYCART**

```
<%@page import="project.ConnectionProvider"%>
<%@page import="java.sql.*"%>
<%@include file="header.jsp" %>
<%@include file="footer.jsp" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"</pre>
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>My Cart</title>
<style>
h3
{
color: yellow;
text-align: center;
</style>
</head>
<body>
<div style="color: white; text-align: center; font-size: 30px;">My Cart <i class='fas fa-</pre>
cart-arrow-down'></i></div>
String email=session.getAttribute("email").toString();
String msg=request.getParameter("msg");
if("notPossible".equals(msg))
{
%>
<h3 class="alert">There is only one Quantity! So click on remove!</h3>
<%}%>
<%
if("inc".equals(msg))
<h3 class="alert">Quantity Increased Successfully!</h3>
<%}%>
<%
if("dec".equals(msg))
%>
<h3 class="alert">Quantity Decreased Successfully!</h3>
<%}%>
if("removed".equals(msg))
{
%>
<h3 class="alert">Product Successfully Removed!</h3>
<%}%>
<thead>
int total=0;
```

```
int sno=0;
try
Connection con=ConnectionProvider.getCon();
Statement st=con.createStatement();
ResultSet rs1=st.executeQuery("select sum(total) from cart where email='" +email+"' and
address is NULL");
while(rs1.next())
total=rs1.getInt(1);
}
%>
Total: <i class="fa fa-</pre>
inr"></i><%out.println(total);%>
<%if(total>0){%><a href="addressPaymentForOrder.jsp">Proceed to
order</a><%}%>
</thead>
<thead>
S.No
Product Name
Category
<i class="fa fa-inr"></i> price
Quantity
Sub Total
Remove <i class='fas fa-trash-alt'></i>
</thead>
<%
ResultSet rs=st.executeQuery("select *from product inner join cart on
product.id=cart.product_id and cart.email='"+email+"' and cart.address is NULL");
while(rs.next())
{
%>
<%sno=sno+1; %>
<%out.println(sno); %>
<%=rs.getString(2) %>
<%=rs.getString(3) %>
<i class="fa fa-inr"></i><%=rs.getString(4) %> 
<a href="incDecQuantityAction.jsp?id=<%=rs.getString(1)%>&quantity=inc"><i class='fas
fa-plus-circle'></i></a><%=rs.getString(8) %> <a</pre>
href="incDecQuantityAction.jsp?id=<%=rs.getString(1)%>&quantity=dec"><i class='fas fa-
minus-circle'></i></a>
<i class="fa fa-inr"></i> <%=rs.getString(10) %>
<a href="removeFromCart.jsp?id=<%=rs.getString(1)%>">Remove <i class='fas fa-trash-
alt'></i></a>
<%
}
catch(Exception e)
{}
```

```
%>

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

#### **MYORDERS**

```
<%@page import="project.ConnectionProvider"%>
<%@page import="java.sql.*"%>
<%@page import="java.sql.Connection"%>
<%@ include file="header.jsp"%>
<%@ include file="footer.jsp"%>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Home</title>
</head>
<body>
<div style="color: white; text-align: center; font-size: 30px;">My Orders <i class='fab</pre>
fa-elementor'></i></div>
<thead>
S.No
Product Name
category
<i class="fa fa-inr"></i> Price
Quantity
<i class="fa fa-inr"></i> Sub Total
Order Date
Expected Delivery Date
Payment Method
Status
</thead>
String email=session.getAttribute("email").toString();
int sno=0;
try
Connection con=ConnectionProvider.getCon();
Statement st=con.createStatement();
ResultSet rs=st.executeQuery("select * from cart inner join product where
cart.product id=product.id and cart.email='"+email+"'and cart.orderDate is not NULL");
while(rs.next())
sno=sno+1;
%>
```

```
<%out.println(sno); %>
<%=rs.getString(17) %>
<%=rs.getString(18) %>
<i class="fa fa-inr"></i><%=rs.getString(19) %>
<%=rs.getString(3) %>
<i class="fa fa-inr"></i><%=rs.getString(5) %>
<%=rs.getString(11) %>
<%=rs.getString(12) %>
<%=rs.getString(13) %>
<%=rs.getString(15) %>
<%
}
catch(Exception e)
System.out.println(e);
}%>
<br>
<br>
<br>
</body>
   </html>
```

#### ADDRESS PAYMENT FOR ORDERS

```
<%@page import="project.ConnectionProvider"%>
<%@page import="java.sql.*"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"</pre>
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<link rel="stylesheet" href="css/addressPaymentForOrder-style.css">
<script src='https://kit.fontawesome.com/a076d05399.js'></script>
<title>Home</title>
<script>
if(window.history.forward(1) !=null)
window.history.forward(1);
</script>
</head>
<body>
<br>
<thead>
String email=session.getAttribute("email").toString();
int total=0;
int sno=0;
try
Connection con=ConnectionProvider.getCon();
Statement st=con.createStatement();
ResultSet rs1 = st.executeQuery("select sum(total) from cart where email = '"+email+"' and
address is NULL");
while(rs1.next())
total = rs1.getInt(1);
}
%>
<a href="myCart.jsp"><i class='fas fa-arrow-circle-left'>
Back</i></a>
Total: <i class="fa fa-inr"></i></i>
<%out.println(total);%>
</thead>
<thead>
S.No
Product Name
Category
<i class="fa fa-inr"></i> price
Quantity
Sub Total
</thead>
```

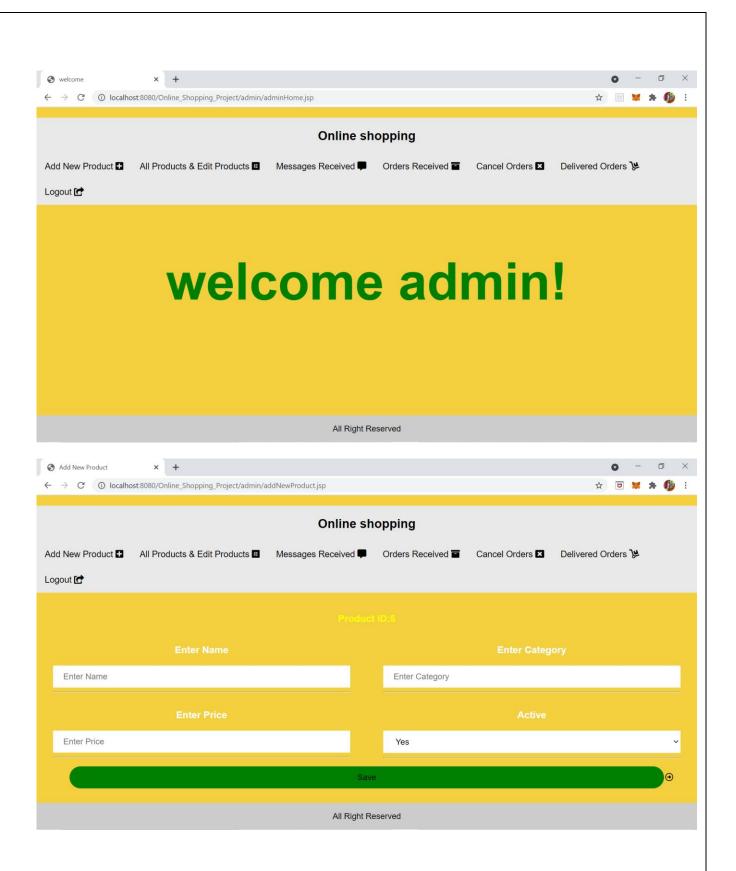
```
ResultSet rs=st.executeQuery("Select * from product inner join cart on
product.id=cart.product_id and cart.email='"+email+"' and cart.address is NULL ");
while (rs.next())
{
%>
<%sno=sno+1; %>
<%=rs.getString(2) %>
<%=rs.getString(3) %>
<i class="fa fa-inr"></i><%=rs.getString(4) %> >
 <%=rs.getString(8) %>
<i class="fa fa-inr"></i><%=rs.getString(10) %> 
<%
ResultSet rs2=st.executeQuery("select *from users where email='"+email+"'");
while(rs2.next())
%>
<hr style="width: 100%">
<form action="addressPaymentForOrderAction.jsp"method="post">
<div class="left-div">
<h3>Enter Address</h3>
<input class="input-style" type="text" name="address" value="<%=rs2.getString(7)%>"
placeholder="Enter Address" required>
</div>
<div class="right-div">
<h3>Enter city</h3>
<input class="input-style" type="text" name="city" value="<%=rs2.getString(8)%>"
placeholder="Enter City" required>
</div>
<div class="left-div">
<h3>Enter State</h3>
<input class="input-style" type="text" name="state" value="<%=rs2.getString(9)%>"
placeholder="Enter State" required>
</div>
<div class="right-div">
<h3>Enter country</h3>
```

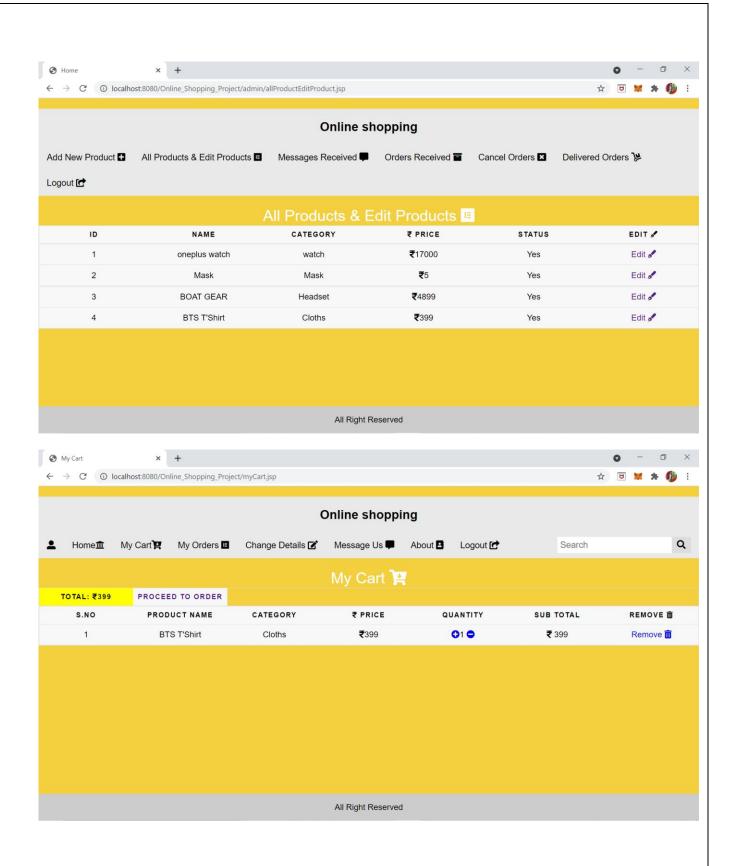
```
<input class="input-style" type="text" name="country" value="<%=rs2.getString(10)%>
"placeholder="Enter Country" required>
</div>
<h3 style="color: red">*If there is no address its mean that you did not set you
address!</h3>
<h3 style="color: red">*This address will also updated to your profile</h3>
<hr style="width: 100%">
<div class="left-div">
<h3>Select way of Payment</h3>
<select class="input-style" name="paymentMethod">
<option value="Cash On delivery(COD)">Cash On Delivery(COD)</option>
<option value="Online Payment">Online Payment
</select>
</div>
<div class="right-div">
<h3>Pay online on this vs^2@pay.com</h3>
<input class="input-style" type="text" name="transactionId" "placeholder="Enter</pre>
TransactionID">
<h3 style="color: red">*If you select online Payment then enter you transaction ID here
otherwise leave this blank</h3>
</div>
<hr style="width: 100%">
<div class="left-div">
<h3>Mobile Number</h3>
<input class="input-style" type="text" name="mobilenumber" value="<%=rs2.getString(3)%>
"placeholder="Enter MobileNumber" required>
<h3 style="color: red">*This mobile number will also updated to your profile</h3>
</div>
<div class="right-div">
<h3 style="color: red">*If you enter wrong transaction id then your order will we can
cancel!</h3>
<button class="button" type="submit">Procced to Generate Bill& Save <i class='far fa-</pre>
arrow-alt-circle-right'></i></button>
<h3 style="color: red">*Fill form correctly</h3>
</div>
</form>
<%
}
catch(Exception e)
System.out.println(e);
}
%>
<br>
<br>
<br>
</body>
    </html>
```

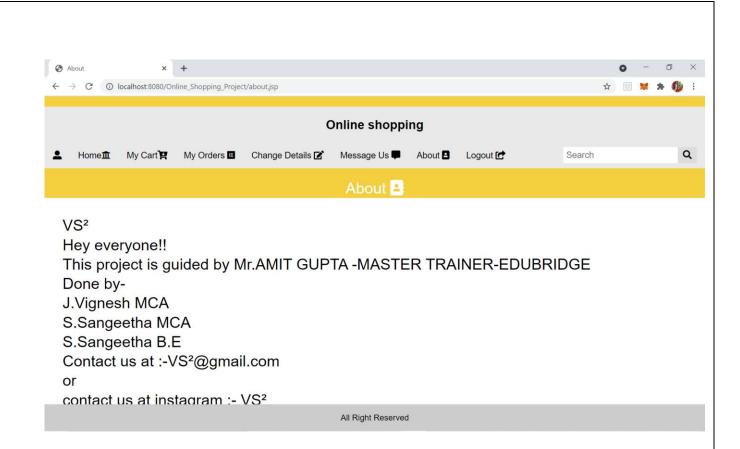
#### **ABOUT**

```
<%@include file="header.jsp"%>
<%@include file="footer.jsp"%>
</@page errorPage="error.jsp" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"</pre>
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>About</title>
</head>
<body>
<div style="color: white; text-align: center; font-size: 30px;">About <i class="fa fa-</pre>
address-book"></i></div>
<div style="background-color: white; padding:35px; font-size: 30px;">
VS<sup>2</sup>
<br>
Hey everyone!!
<br>
This project is guided by Mr.AMIT GUPTA -MASTER TRAINER-EDUBRIDGE
<br>
Done by-<br>
J.Vignesh MCA<br>
S.Sangeetha MCA<br>
S.Sangeetha B.E
<br>
Contact us at :-VS<sup>2</sup>@gmail.com
<br>
or
<br>
contact us at instagram :- VS<sup>2</sup>
</div>
</body>
            </html>
```

# **SCREENSHOTS** • - • × Signup o- ☆ 🖯 📜 🗯 🛊 🥬 : $\leftarrow \ \, \rightarrow \ \, \mathbf{C} \quad \, \textcircled{0} \, \, \, \textbf{localhost:} 8080/Online\_Shopping\_Project/signup.jsp$ Enter Name VS<sup>2</sup> Online Shopping admin@gmail.com WELCOME TO VS2 ONLINE SHOPPING Enter Mobile number what was your first car enter answer ••••• signup **Login** S Login × + $\leftarrow$ $\rightarrow$ $\mathbf{C}$ ① localhost:8080/Online\_Shopping\_Project/login.jsp VS<sup>2</sup> Online Shopping admin@gmail.com WELCOME TO VS2 ONLINE SHOPPING login <u>SignUp</u> Forgot Password?







#### **CONCLUSION & FUTURE SCOPE**

- The following things can be done in future.
- The current system can be extended to allow the users to create accounts and save products in to wish list.
- The users could subscribe for price alerts which would enable them to receive messages when price for products fall below a particular level.
- The current system is confined only to the shopping cart process. It can be extended to have an easy to use check out process.
- Users can have multiple shipping and billing information saved. During checkout they can use the drag and drop feature to select shipping and billing