|  |  |  |  |
| --- | --- | --- | --- |
| **Ex. No. 03** | **DESIGNING WEB APPLICATION USING JAVA SERVER PAGES - ONLINE SHOPPING** | | |
| Date of Exercise |  | Date of Output Verification |  |

**Aim**

To develop and deploy the web application using java server pages for Online Shopping using J2EE programming.

**Description**

Java Server Pages (JSP) is a technology for developing web pages that support dynamic content which helps developers insert java code in HTML pages by making use of special JSP tags, most of which start with <% and end with %>.

A Java Server Pages component is a type of Java servlet that is designed to fulfill the role of a user interface for a Java web application. Web developers write JSPs as text files that combine HTML or XHTML code, XML elements, and embedded JSP actions and commands.

Using JSP, you can collect input from users through web page forms, present records from a database or another source, and create web pages dynamically.

JSP tags can be used for a variety of purposes, such as retrieving information from a database or registering user preferences, accessing JavaBeans components, passing control between pages and sharing information between requests, pages etc.

**Procedure**

* Open Netbeans IDE
* Click on java web project
* Set the location and name of the project
* Right click on the project and create a new jsp file
* Create separate jsp files for header, footer and body for easier access in multiple pages
* Link the jsp files using jsp:include in the index page
* Make the index.jsp as the root page in project ‘run’ properties
* Create multiple files for multiple views but use the same header and footer for easier access
* Use jQuery and css to make the application look professional and for client side scripting
* Implement login and signup functionalities, by checking the details from the database
* Create a session after signin and display the name of the user and the options to add products and buy products
* Implement add to cart functionality using cookies
* Destroy the session on logout

**Program**

Web.xml

<?xml version="1.0" encoding="UTF-8"?>

<web-app version="3.1" xmlns="http://xmlns.jcp.org/xml/ns/javaee" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee http://xmlns.jcp.org/xml/ns/javaee/web-app\_3\_1.xsd">

<servlet>

<servlet-name>LoginSignup</servlet-name>

<servlet-class>LoginSignup</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>LoginSignup</servlet-name>

<url-pattern>/LoginSignup</url-pattern>

</servlet-mapping>

<session-config>

<session-timeout>

30

</session-timeout>

</session-config>

</web-app>

LoginSignup

import java.io.IOException;

import java.io.PrintWriter;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import javax.servlet.RequestDispatcher;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

public class LoginSignup extends HttpServlet {

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

try {

PrintWriter out = response.getWriter();

response.setContentType("text/html;charset=UTF-8");

HttpSession hs = request.getSession();

String sbutton = request.getParameter("submit\_button");

switch (sbutton) {

case "SignIn": {

String username = request.getParameter("signin\_username");

String password = request.getParameter("signin\_password");

Class.forName("org.apache.derby.jdbc.ClientDriver");

Connection con = DriverManager.getConnection("jdbc:derby://localhost:1527/J2EE-Lab-Experiments", "ws", "6477");

String query = "select name from WS.REGISTERED\_USERS where USERNAME='" + username + "' and PASSWORD='" + password.hashCode() + "'";

Statement st = con.createStatement();

ResultSet rs = st.executeQuery(query);

if (rs.next()) {

hs.setAttribute("username", rs.getString("name"));

RequestDispatcher rd = request.getRequestDispatcher("index.jsp");

rd.forward(request, response);

// response.sendRedirect("index.jsp");

} else {

out.println("<div class='container alert alert-danger'>Invalid Username or Password, Try Again!....</div>");

RequestDispatcher rd = request.getRequestDispatcher("login.jsp");

rd.forward(request, response);

}

break;

}

case "SignUp": {

String name = request.getParameter("signup\_fullname");

String username = request.getParameter("signup\_username");

String email = request.getParameter("signup\_email");

String dob = request.getParameter("signup\_dob");

String pwd = request.getParameter("signup\_Password");

Class.forName("org.apache.derby.jdbc.ClientDriver");

Connection con = DriverManager.getConnection("jdbc:derby://localhost:1527/J2EE-Lab-Experiments", "ws", "6477");

String query = "insert into ws.Registered\_users values('" + name + "', '" + username + "', '" + email + "', '" + dob + "', '" + pwd.hashCode() + "')";

Statement st = con.createStatement();

int a = st.executeUpdate(query);

if (a == 1) {

hs.setAttribute("username", name);

RequestDispatcher rd = request.getRequestDispatcher("index.jsp");

rd.forward(request, response);

} else {

out.print("Registration Error");

RequestDispatcher rd = request.getRequestDispatcher("login.jsp");

rd.include(request, response);

}

break;

}

default:

out.println("Invalid Request");

break;

}

} catch (IOException | ClassNotFoundException | SQLException | ServletException ex) {

System.out.println(ex);

}

}

}

Index.jsp

<%@page contentType="text/html" pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

<title>WS | E-Commerce</title>

<script src="js/jquery-1.11.3.min.js"> </script>

<script src="js/bootstrap.min.js"> </script>

<script src="js/script.js"> </script>

<link rel="stylesheet" href="css/bootstrap.min.css" />

<link rel="stylesheet" href="css/styles.css" />

</head>

<body>

<jsp:include flush="true" page="header.jsp"></jsp:include>

<jsp:include flush="true" page="index\_body.jsp"></jsp:include>

<jsp:include flush="true" page="footer.jsp"></jsp:include>

</body>

</html>

Header.jsp

<nav class="navbar navbar-default ">

<div class="container">

<div class="navbar-header">

<button type="button" class="navbar-toggle collapsed" data-toggle="collapse" data-target="#bs-example-navbar-collapse-1" aria-expanded="false">

<span class="sr-only">Toggle navigation</span>

<span class="icon-bar"></span>

<span class="icon-bar"></span>

<span class="icon-bar"></span>

</button>

<a class="navbar-brand" href="#">WS | E-Commerce</a>

</div>

<div class="collapse navbar-collapse" id="bs-example-navbar-collapse-1">

<ul class="nav navbar-nav">

<li class="active"><a href="index.jsp">Home <span class="sr-only">(current)</span></a></li>

<li class="dropdown">

<a href="#" class="dropdown-toggle" data-toggle="dropdown" role="button" aria-haspopup="true" aria-expanded="false"> Categories <span class="caret"></span></a>

<ul class="dropdown-menu">

<li><a href="#">Action</a></li>

<li><a href="#">Another action</a></li>

<li role="separator" class="divider"></li>

<li><a href="#">Separated link</a></li>

<li role="separator" class="divider"></li>

<li><a href="#">One more separated link</a></li>

</ul>

</li>

</ul>

<form class="navbar-form navbar-left" role="search">

<div class="form-group">

<input type="text" class="form-control" placeholder="Search">

</div>

<button type="submit" class="btn btn-default">Submit</button>

</form>

<ul class="nav navbar-nav navbar-right">

<li><a href="check\_cart.jsp">Check Cart <span class=""></span></a></li>

<%

if (session.getAttribute("username") == null) {

%>

<li><a href="login.jsp">Login <span class=""></span></a></li>

<%

} else {

%>

<li class="dropdown">

<a href="#" class="dropdown-toggle" data-toggle="dropdown" role="button" aria-haspopup="true" aria-expanded="false"> <%=session.getAttribute("username")%> <span class="caret"></span></a>

<ul class="dropdown-menu">

<li><a href="#">Account Settings</a></li>

<li><a href="#">Privacy Settings</a></li>

<li role="separator" class="divider"></li>

<li><a href="logout.jsp">Logout</a></li>

</ul>

</li>

<%

}

%>

</ul>

</div><!-- /.navbar-collapse -->

</div><!-- /.container-fluid -->

</nav>

Footer.jsp

<style>

#footer{

position: fixed;

bottom: 0px;

text-align: center;

line-height: 1.2em;

background: #357ebd;

color: whitesmoke;

font-size: 1.2em;

right: 0px;

left: 0px;

letter-spacing: 1.5px;

padding-top: 12px;

}

</style>

<div id="footer">

<p class="footer-block">Developed by WS</p>

</div>

Index\_body.jsp

<%@page import="java.util.Set"%>

<%@page import="java.util.HashSet"%>

<%@page import="java.sql.ResultSet"%>

<%@page import="java.sql.Statement"%>

<%@page import="java.sql.DriverManager"%>

<%@page import="java.sql.Connection"%>

<%

Class.forName("org.apache.derby.jdbc.ClientDriver");

Connection con = DriverManager.getConnection("jdbc:derby://localhost:1527/J2EE-Lab-Experiments", "ws", "6477");

String query = "select \* from ws.shoppingproducts";

Statement st = con.createStatement();

ResultSet rs = st.executeQuery(query);

Set<String> set;

if (request.getParameter("addid") != null) {

String productid = request.getParameter("addid");

Statement st2 = con.createStatement();

ResultSet rs2 = st2.executeQuery("select \* from WS.SHOPPINGPRODUCTS WHERE PRODUCTID='" + productid + "'");

rs2.next();

if (session.getAttribute("list") == null) {

set = new HashSet();

set.add(productid);

} else {

set = (HashSet) session.getAttribute("list");

set.add(productid);

}

out.println("<div class='alert alert-success col-sm-8 col-sm-offset-2'>Sucessfully Added to Cart</div>");

session.setAttribute("list", set);

out.print(set);

}

if (session.getAttribute("username") != null) {

if (session.getAttribute("username").toString().equals("William Scott")) {

%>

<a href="admin\_modify.jsp" class="btn btn-success col-sm-offset-10"> Modify Products </a>

<%

}

}

%>

<div class="container">

<div class="row">

<%while (rs.next()) {

%>

<div class="col-sm-6 col-md-3 panel ">

<div class="thumbnail">

<img src='<%=rs.getString("producturl")%>' alt='<%=rs.getString("productname")%>' style="height: 150px;">

</div>

<div class="caption">

<h3><%=rs.getString("productname")%></h3>

<span>Rs <%=rs.getString("productcost")%>/-</span>

<p><%=rs.getString("productdescription")%></p>

<p>

<a href='index.jsp?addid=<%=rs.getString("productid")%>' class="btn btn-primary" role="button">

Add to Cart

</a>

</p>

</div>

</div>

<%

}

%>

</div>

</div>

<div style="margin-bottom: 30px;"></div>

Add\_products\_body.jsp

<%@page import="java.sql.DriverManager"%>

<%@page import="java.sql.Statement"%>

<%@page import="java.sql.Connection"%>

<%

if (!session.getAttribute("username").toString().equals("William Scott")) {

RequestDispatcher rd = request.getRequestDispatcher("index.jsp");

rd.forward(request, response);

}

if (request.getParameter("sbtn") != null) {

if (request.getParameter("sbtn").toString().equals("AddProduct")) {

String pid = request.getParameter("pid");

String pname = request.getParameter("pname");

String pcost = request.getParameter("pcost");

String purl = request.getParameter("purl");

String pcatego = request.getParameter("pcatego");

String pdesc = request.getParameter("pdesc");

Class.forName("org.apache.derby.jdbc.ClientDriver");

Connection con = DriverManager.getConnection("jdbc:derby://localhost:1527/J2EE-Lab-Experiments", "ws", "6477");

String query = "select \* from ws.shoppingproducts";

Statement st = con.createStatement();

st.executeUpdate("insert into ws.shoppingproducts values('" + pid + "', '" + pname + "', '" + pcost + "', '" + purl + "', '" + pcatego + "', '" + pdesc + "')");

}

}

%>

<a class="btn btn-default col-sm-offset-9" href="admin\_modify.jsp">Return to Admin Modify Page</a>

<form class="form-horizontal" role="form" style="overflow: hidden;">

<div class="form-group">

<label class="control-label col-sm-4" for="pid">Product ID</label>

<div class="col-sm-5">

<input type="text" class="form-control" id="pid" name="pid" placeholder="Product ID">

</div>

</div>

<div class="form-group">

<label class="control-label col-sm-4" for="pname">Product Name</label>

<div class="col-sm-5">

<input type="text" class="form-control" id="pname" name="pname" placeholder="Product Name">

</div>

</div>

<div class="form-group">

<label class="control-label col-sm-4" for="pcost">Product Cost</label>

<div class="col-sm-5">

<input type="text" class="form-control" id="pcost" name="pcost" placeholder="Product Cost">

</div>

</div>

<div class="form-group">

<label class="control-label col-sm-4" for="purl">Product URL</label>

<div class="col-sm-5">

<input type="text" class="form-control" id="purl" name="purl" placeholder="Product URL">

</div>

</div>

<div class="form-group">

<label class="control-label col-sm-4" for="pcatego">Product Category</label>

<div class="col-sm-5">

<input type="text" class="form-control" id="pcatego" name="pcatego" placeholder="Product Category">

</div>

</div>

<div class="form-group">

<label class="control-label col-sm-4" for="pdesc">Product Description</label>

<div class="col-sm-5">

<input type="text" class="form-control" id="pdesc" name="pdesc" placeholder="Product Description">

</div>

</div>

<div class="form-group">

<div class="col-sm-offset-9 col-sm-10">

<input type="submit" name="sbtn" class="btn btn-default" value="AddProduct" />

</div>

</div>

</form>

<div style="margin-bottom: 30px;"></div>

Check\_cart\_body.jsp

<%@page import="java.sql.ResultSet"%>

<%@page import="java.sql.DriverManager"%>

<%@page import="java.sql.Statement"%>

<%@page import="java.sql.Connection"%>

<%@page import="java.util.HashSet"%>

<%@page import="java.util.Set"%>

<%

Class.forName("org.apache.derby.jdbc.ClientDriver");

Connection con = DriverManager.getConnection("jdbc:derby://localhost:1527/J2EE-Lab-Experiments", "ws", "6477");

Set<String> set;

int i = 0;

if (session.getAttribute("list") == null) {

%>

<div class="col-sm-12">

<div class="thumbnail col-sm-5 col-sm-offset-3" style="text-align: center;">Your Cart is Empty

<a href='index.jsp' class="btn btn-primary" role="button">

Continue Shopping

</a>

</div>

</div>

<% } else {

set = (HashSet) session.getAttribute("list");

if (request.getParameter("remove") != null) {

String a = request.getParameter("remove");

set.remove(a);

session.setAttribute("list", set);

}

%>

<form action="payment.jsp" method="post" name="psd">

<table class="table table-hover" ng-app="">

<thead>

<tr>

<th>Product</th>

<th>No. of Items</th>

<th>Cost per Item</th>

<th>Over all Cost</th>

<th>Remove</th>

</tr>

</thead>

<tbody>

<% for (String productid : set) {

Statement st2 = con.createStatement();

ResultSet rs2 = st2.executeQuery("select \* from WS.SHOPPINGPRODUCTS WHERE PRODUCTID='" + productid + "'");

rs2.next();

String productname = rs2.getString("productname");

String producturl = rs2.getString("producturl");

String productcost = rs2.getString("productcost");

%>

<tr>

<td>

<div class="thumbnail" style="width: 200px;">

<img src="<%=producturl%>" style="width: 150px;"/>

<%=productname%>

</div>

</td>

<td>

<!--<input type="text" value="1"/>-->

<select id="<%=(productid + "no")%>">

<option>--Select--</option>

<option>1</option>

<option>2</option>

<option>3</option>

<option>4</option>

<option>5</option>

</select>

</td>

<td><%=productcost%></td>

<td>

<input id="<%=(productid + "total")%>" name="add" readonly="" />

</td>

<td><a href="check\_cart.jsp?remove=<%=productid%>" class="btn btn-danger">Remove</a></td>

</tr>

<script>

$(document).ready(function () {

$('<%=("#" + productid + "no")%>').on('change', function (e) {

$('<%=("#" + productid + "total")%>').val(<%=productcost%> \* $('<%=("#" + productid + "no")%>').val());

});

});

</script>

<%

}

%>

<tr>

<td></td>

<td></td>

<td></td>

<td><a class="btn btn-success" onclick="a()">Check Total Cost</a></td>

<td>

<input id="final" readonly=""/>

</td>

</tr>

</tbody>

</table>

<a class="btn btn-primary pull-right disabled" id="ptp" onclick="document.psd.submit();">Proceed to Payment</a>

</form>

<%

}

%>

<script>

$(document).ready(function () {

$("#final").val(0);

var getStatus = function () {

if ($("#final").val() > 0) {

$("#ptp").removeClass("disabled");

}

else

$("#ptp").addClass("disabled");

setTimeout(getStatus, 10);

};

getStatus();

});

function a() {

var i = 0;

$("input[name='add']").each(function () {

i = i + parseInt($(this).val());

});

$("#final").val(i);

}

</script>

<div style="margin-bottom: 30px;"></div>

Login\_body.jsp

<script>

$(document).ready(function () {

$("#signupform").hide();

$("#signinclick").click(function () {

$("#signupform").slideUp();

$("#signinform").slideDown();

});

$("#signupclick").click(function () {

$("#signinform").slideUp();

$("#signupform").slideDown();

});

});

</script>

<style>

body{

background-image: url('img/login-background.jpg');

overflow-x: hidden;

}

#body form, #body{

width: 450px;

margin: 0px auto;

padding: 0px;

}

#body form{

background: rgba(0,0,0,0.4);

padding: 7px;

margin-top: 40px;

border-radius: 2px;

color: white;

border:1px white solid;

box-shadow: 0 0 5px black;

transition: box-shadow 1s ease;

}

#body form:hover{

box-shadow: 0 0 15px black;

}

#body{

margin-top: 50px;

}

#body .heading{

font-size: 2em;

margin:0 auto;

}

#body ul{

margin-left: 70px

}

#body ul li{

display: inline;

padding: 10px 15px;

cursor: pointer;

background: rgba(0,0,0,0.3);

transition: background 0.3s ease;

margin-left: 20px;

border-radius: 2px;

color: white;

}

#body ul li:hover{

background: rgba(0,0,255,0.2);

color: black;

}

</style>

<div id="body">

<ul id="tabs">

<li id="signinclick">SignIn</li>

<li id="signupclick">SignUp</li>

</ul>

<form id="signinform" class="form-horizontal" action="LoginSignup" method="post">

<p class="heading">Login</p>

<div class="form-group">

<label for="signin\_username" class="control-label col-sm-3">Username</label>

<div class="col-sm-8">

<input type="text" name="signin\_username" id="signin\_username" placeholder="Enter Username" class="form-control" required>

</div>

</div>

<div class="form-group">

<label for="signin\_password" class="control-label col-sm-3">Password</label>

<div class="col-sm-8">

<input type="password" name="signin\_password" id="signin\_password" placeholder="Enter Password" class="form-control" required>

</div>

</div>

<div class="form-group">

<div class="col-sm-offset-8">

<input type="submit" name="submit\_button" class="btn btn-default" value="SignIn" />

</div>

</div>

</form>

<form id="signupform" class="form-horizontal" action="LoginSignup" method="post">

<p class="heading">Sign Up</p>

<div class="form-group">

<label for="signup\_fullname" class="control-label col-sm-3">Full Name</label>

<div class="col-sm-8">

<input type="text" name="signup\_fullname" id="signup\_fullname" placeholder="Enter Full Name" class="form-control" required>

</div>

</div>

<div class="form-group">

<label for="signup\_username" class="control-label col-sm-3">Username</label>

<div class="col-sm-8">

<input type="text" name="signup\_username" id="signup\_username" placeholder="Enter Username" class="form-control" required>

</div>

</div>

<div class="form-group">

<label for="signup\_email" class="control-label col-sm-3">Email</label>

<div class="col-sm-8">

<input type="email" name="signup\_email" id="signup\_email" placeholder="Enter Email" class="form-control" required>

</div>

</div>

<div class="form-group">

<label for="signup\_dob" class="control-label col-sm-3">Date of Birth</label>

<div class="col-sm-8">

<input type="date" name="signup\_dob" id="signup\_dob" class="form-control">

</div>

</div>

<div class="form-group">

<label for="signup\_Password" class="control-label col-sm-3">Password</label>

<div class="col-sm-8">

<input type="password" name="signup\_Password" id="signup\_Password" placeholder="Enter Password" class="form-control" required>

</div>

</div>

<div class="form-group">

<div class="col-sm-offset-8">

<input type="submit" name="submit\_button" class="btn btn-default" value="SignUp" />

</div>

</div>

</form>

</div>

<div style="margin-bottom: 30px;"></div>

Payment\_body.jsp

<style>

form{

margin-top: 5vh;

overflow: hidden;

}

</style>

<div class="col-sm-12">

<div class="col-sm-8 col-sm-offset-2">

<ul class="nav nav-tabs">

<li class="active"><a data-toggle="tab" href="#home">Credit Card</a></li>

<li><a data-toggle="tab" href="#menu1">Debit Card</a></li>

<li><a data-toggle="tab" href="#menu2">Online Payment</a></li>

</ul>

<div class="tab-content">

<div id="home" class="tab-pane fade in active">

<form class="form-horizontal" role="form">

<div class="form-group">

<label class="control-label col-sm-4" for="a">Card No</label>

<div class="col-sm-5">

<input type="email" class="form-control" id="a" placeholder="Enter Card No">

</div>

</div>

<div class="form-group">

<label class="control-label col-sm-4" for="b">Card Holder Name</label>

<div class="col-sm-5">

<input type="password" class="form-control" id="b" placeholder="Enter Card Holder Name">

</div>

</div>

<div class="form-group">

<label class="control-label col-sm-4" for="s">CVV Number</label>

<div class="col-sm-5">

<input type="password" class="form-control" id="s" placeholder="Enter CVV Number">

</div>

</div>

<div class="form-group">

<label class="control-label col-sm-4">Expiry Date</label>

<div class="col-sm-5">

<input type="date" class="form-control">

</div>

</div>

<div class="form-group">

<div class="col-sm-offset-9 col-sm-10">

<button type="submit" class="btn btn-default">Confirm Payment</button>

</div>

</div>

</form>

</div>

<div id="menu1" class="tab-pane fade">

<form class="form-horizontal" role="form">

<div class="form-group">

<label class="control-label col-sm-4" for="a">Card No</label>

<div class="col-sm-5">

<input type="email" class="form-control" id="a" placeholder="Enter Card No">

</div>

</div>

<div class="form-group">

<label class="control-label col-sm-4" for="b">Card Holder Name</label>

<div class="col-sm-5">

<input type="password" class="form-control" id="b" placeholder="Enter Card Holder Name">

</div>

</div>

<div class="form-group">

<label class="control-label col-sm-4" for="s">CVV Number</label>

<div class="col-sm-5">

<input type="password" class="form-control" id="s" placeholder="Enter CVV Number">

</div>

</div>

<div class="form-group">

<label class="control-label col-sm-4">Expiry Date</label>

<div class="col-sm-5">

<input type="date" class="form-control">

</div>

</div>

<div class="form-group">

<div class="col-sm-offset-9 col-sm-10">

<button type="submit" class="btn btn-default">Confirm Payment</button>

</div>

</div>

</form>

</div>

<div id="menu2" class="tab-pane fade">

<form class="form-horizontal" role="form">

<div class="form-group">

<label class="control-label col-sm-4" for="Username">Username:</label>

<div class="col-sm-5">

<input type="email" class="form-control" id="Username" placeholder="Enter Username">

</div>

</div>

<div class="form-group">

<label class="control-label col-sm-4" for="pwd">Password:</label>

<div class="col-sm-5">

<input type="password" class="form-control" id="pwd" placeholder="Enter Password">

</div>

</div>

<div class="form-group">

<div class="col-sm-offset-7 col-sm-10">

<div class="checkbox">

<label><input type="checkbox"> Remember me</label>

</div>

</div>

</div>

<div class="form-group">

<div class="col-sm-offset-8 col-sm-10">

<button type="submit" class="btn btn-default">Submit</button>

</div>

</div>

</form>

</div>

</div>

</div>

</div>

<div style="margin-bottom: 30px;"></div>

Admin\_modify\_body.jsp

<%

if (!session.getAttribute("username").toString().equals("William Scott")) {

RequestDispatcher rd = request.getRequestDispatcher("index.jsp");

rd.forward(request, response);

}

%>

<%@page import="java.util.Set"%>

<%@page import="java.util.HashSet"%>

<%@page import="java.sql.ResultSet"%>

<%@page import="java.sql.Statement"%>

<%@page import="java.sql.DriverManager"%>

<%@page import="java.sql.Connection"%>

<%

Class.forName("org.apache.derby.jdbc.ClientDriver");

Connection con = DriverManager.getConnection("jdbc:derby://localhost:1527/J2EE-Lab-Experiments", "ws", "6477");

String query = "select \* from ws.shoppingproducts";

Statement st = con.createStatement();

Set<String> set;

if (request.getParameter("removeid") != null) {

String productid = request.getParameter("removeid");

Statement st2 = con.createStatement();

st2.executeUpdate("DELETE FROM SHOPPINGPRODUCTS WHERE PRODUCTID = '" + productid + "'");

// out.println("<script>alert('Sucessfully Added to Cart');</script>");

out.println("<div class='alert alert-danger col-sm-8 col-sm-offset-2'>Sucessfully Removed</div>");

}

ResultSet rs = st.executeQuery(query);

%>

<a href="add\_products.jsp" class="btn btn-success col-sm-offset-10">Add Products</a>

<div class="container">

<div class="row">

<%while (rs.next()) {

%>

<div class="col-sm-6 col-md-3 panel">

<div class="thumbnail">

<img src='<%=rs.getString("producturl")%>' alt='<%=rs.getString("productname")%>' style="height: 150px;">

</div>

<div class="caption">

<h3><%=rs.getString("productname")%></h3>

<span>Rs <%=rs.getString("productcost")%>/-</span>

<p><%=rs.getString("productdescription")%></p>

<p>

<a href='admin\_modify.jsp?removeid=<%=rs.getString("productid")%>' class="btn btn-danger" role="button">

Remove Product

</a>

</p>

</div>

</div>

<%

}

%>

</div>

</div>

<div style="margin-bottom: 30px;"></div>

Logout.jsp

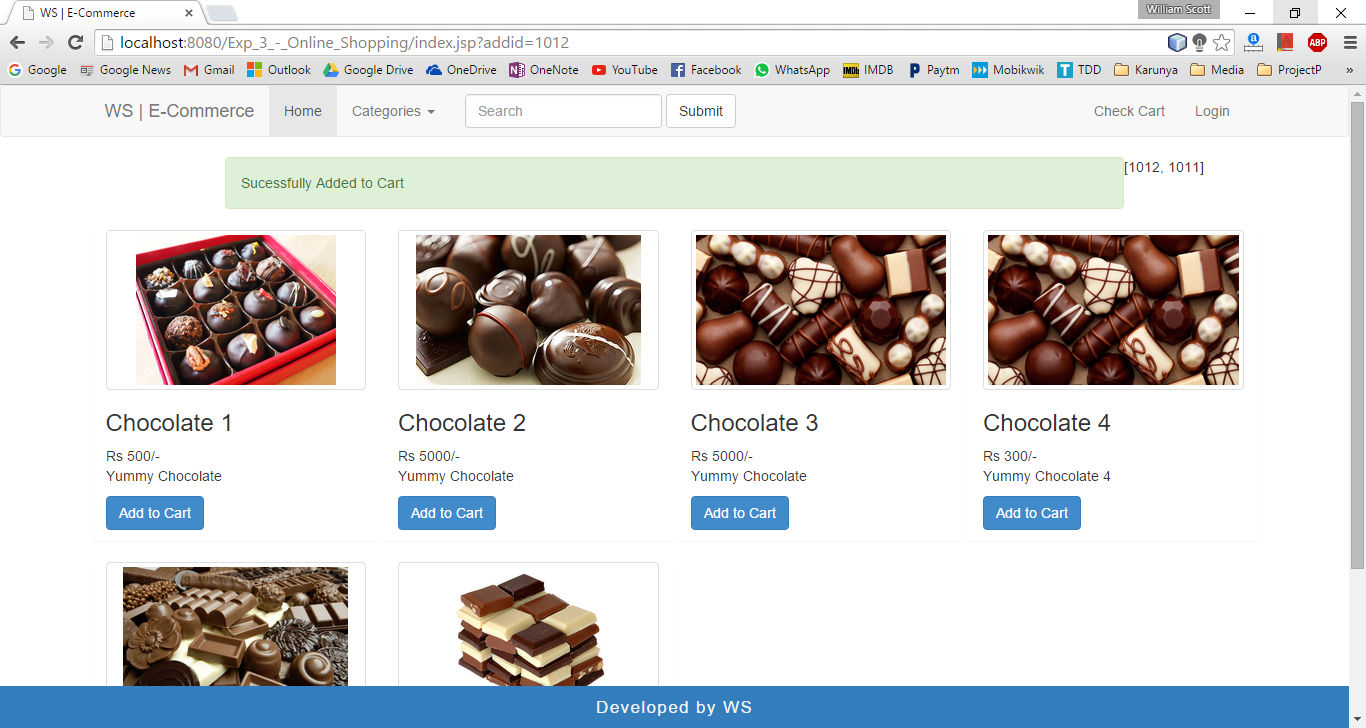
<%

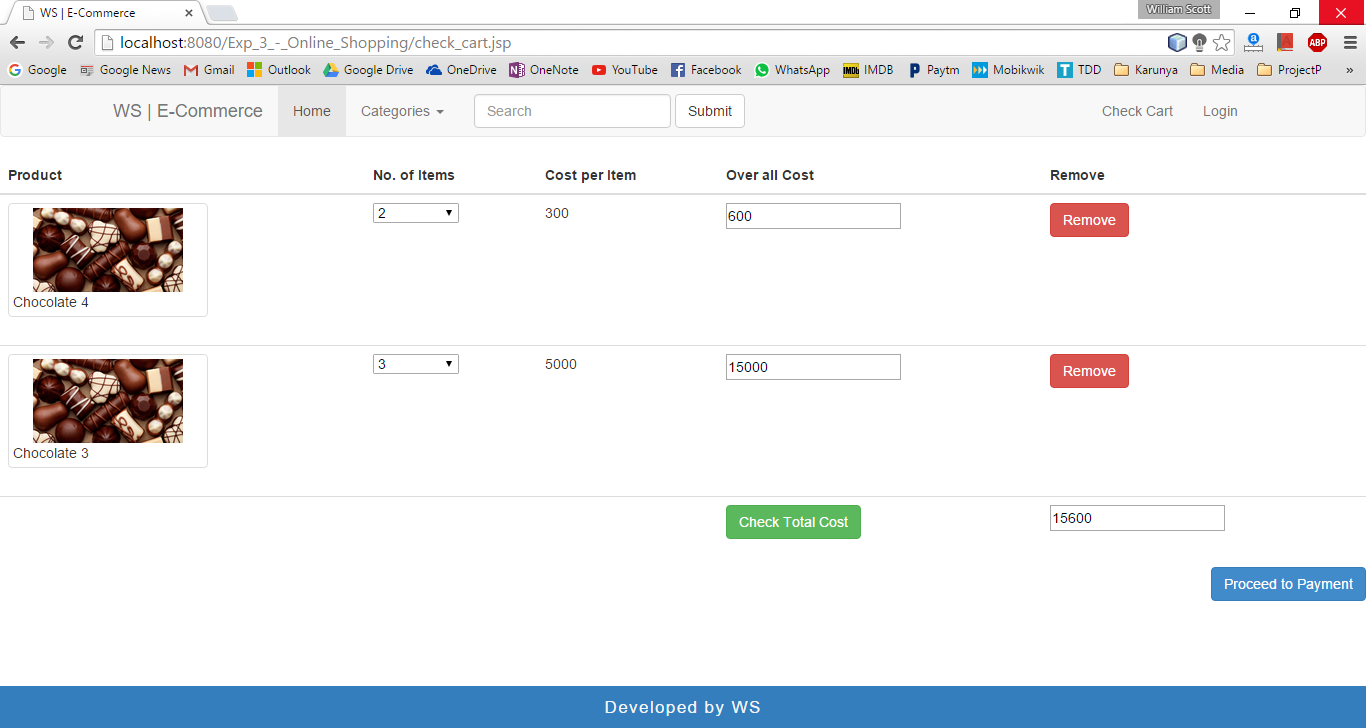
session.invalidate();

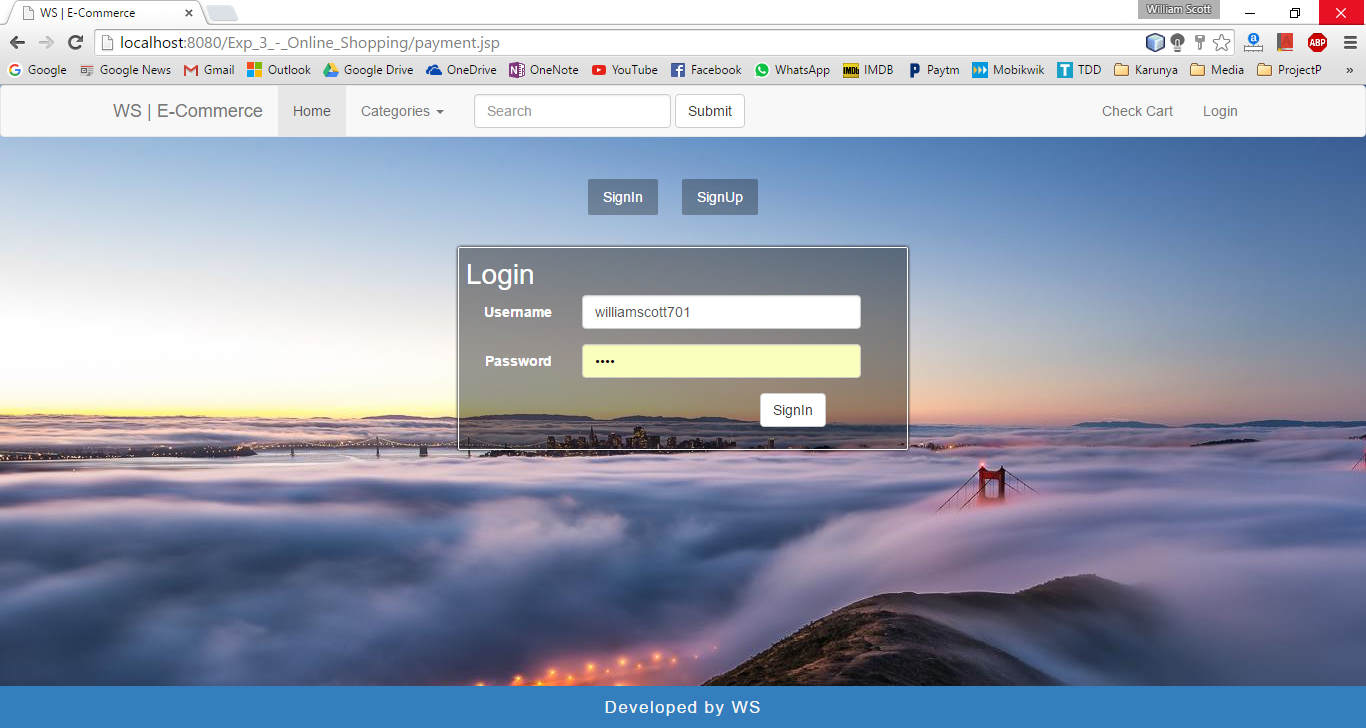
response.sendRedirect("index.jsp");

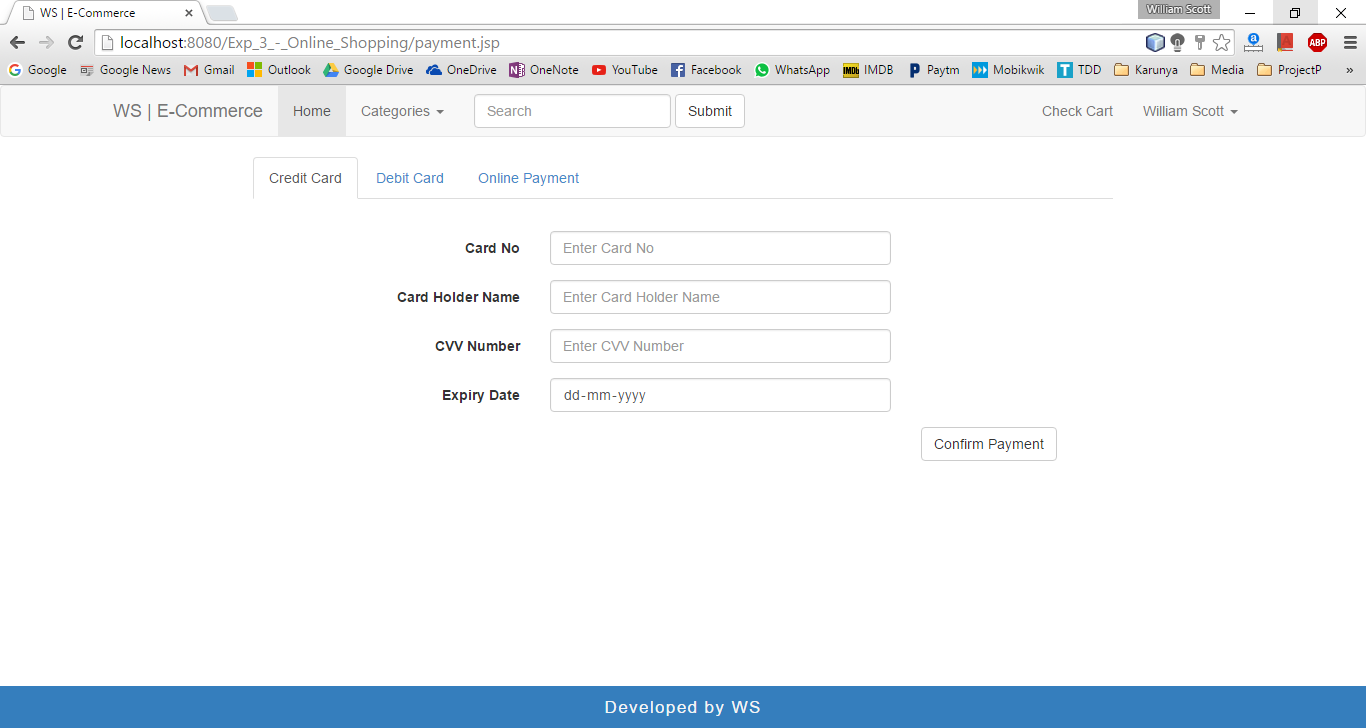
%>

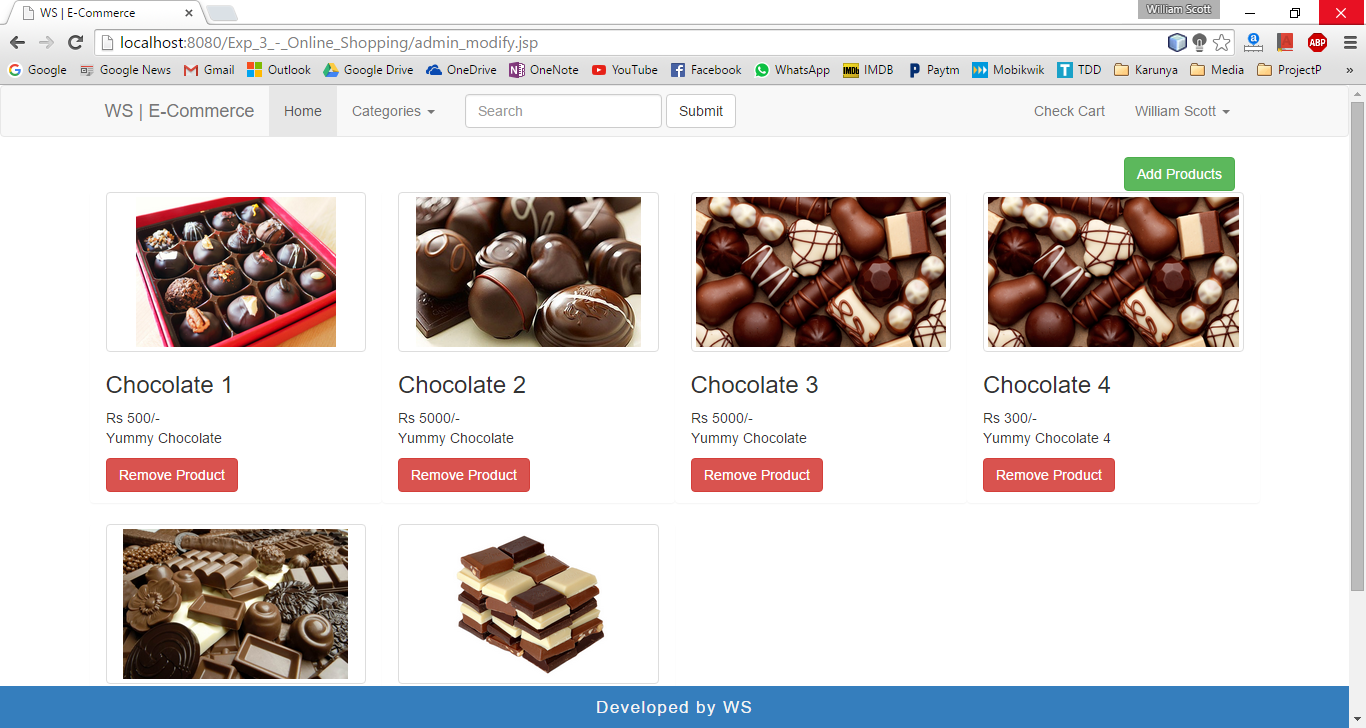
**Output**

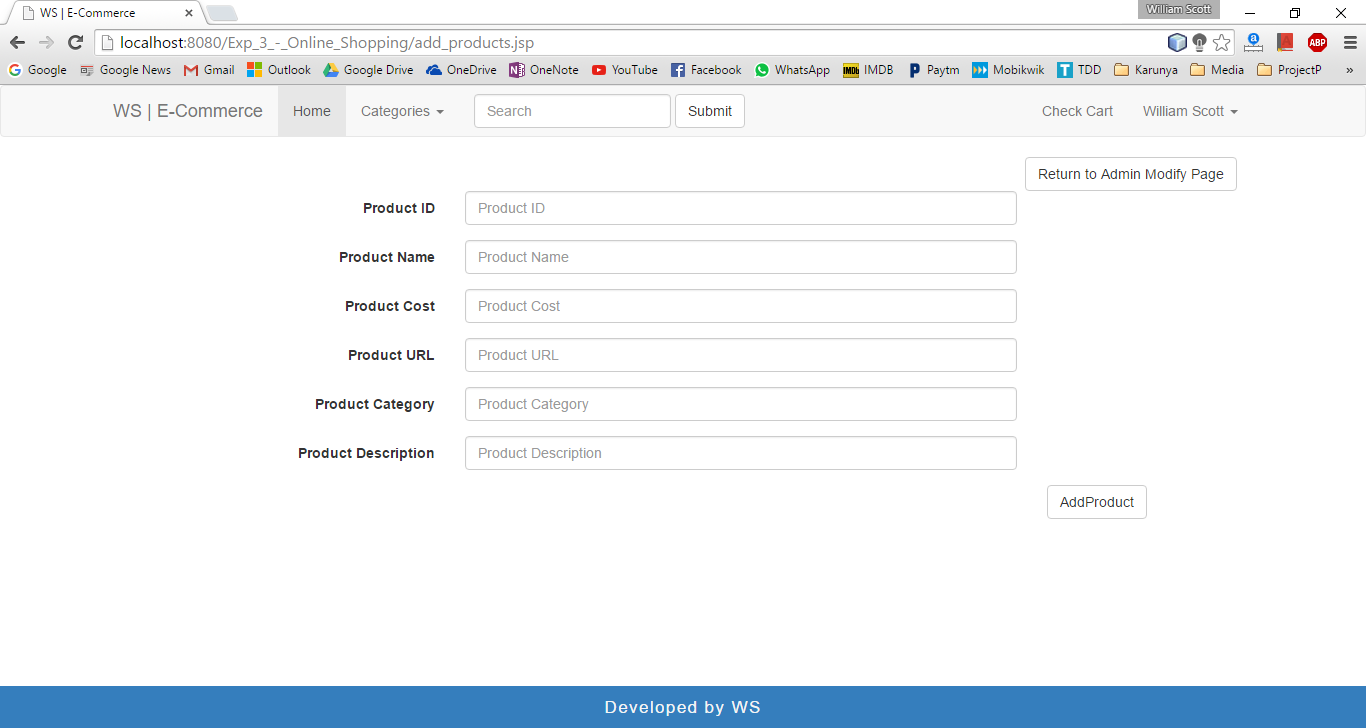












**Result**

Thus, the web application using java server pages for Online Shopping was successfully developed and deployed

[Signature of the Staff In-charge]

[Name of the Staff In – charge]