**Product Details Portal**

**DESCRIPTION:**

Create a servlet-based web application that shows a form to enter product details. Capture the details in a servlet and then display the data that was entered.

**Background of the problem statement:**  
As a part of developing an ecommerce web application, you have to prototype a form for adding products into the system entered by the users. There is no database involved here, so  
the product is just captured and displayed without storing it anywhere.

**Tools I have to used:**

* Eclipse as the IDE
* Apache Tomcat as the web server
* JSP pages for the front end
* Servlets for backend processing

Step1:Creating the index.jsp

Step2:Create product.jsp

Step3:Create servlets called product.java

Step4:Create a class called productclass.java

Step5:Checking the servlet-api.jar

Step6:Build the project

Step7:Running the project

**Code:**

**index.jsp**

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Insert title here</title>

<style>

**body** {

position: *relative*;

margin:*200px*;

background-size:*cover*;

}

</style>

</head>

<body background=*"rose.jpg"*>

<div align = *"center"* >

<h1 style="color: *Magenta*;">!....... WELCOME UMA LAKSHMI........!</h1>

<h2 style="color: *Cyan*;">ADD PRODUCT DETAILS </h2>

<form action=*"Product"* method=*"post"*>

<table>

<tr>

<td>Product ID: </td>

<td><input name=*"id"* /></td>

</tr>

<tr>

<td>Product NAME: </td>

<td><input name=*"name"* type=*"text"* /></td>

</tr>

<tr>

<td>Product Price: </td>

<td><input name=*"price"* /></td>

</tr>

<tr>

<td><input type=*"submit"* value=*"Submit"*/></td>

</tr>

</table>

</form>

</div>

</body>

</html>

**Profile.jsp**

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<%@page import=*"java.util.ArrayList"*%>

<%@page import=*"com.ProductClass"*%>

<%@page import=*"java.util.Iterator"*%>

<!DOCTYPE html>

<html>

<head>

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

<title>Product Profile</title>

<style>

**body** {

position: *relative*;

margin:*200px*;

background-size:*cover*;

}

</style>

</head>

<body background=*"peacock.jpg"*>

<%

ArrayList<ProductClass> p1 = (ArrayList) request.getAttribute("data");

%>

<div align=*"center"*>

<h1 style="color: *red*;">HI UMA LAKSHMI THIS IS YOUR PRODUCT DETAILS:......!</h1>

<table border=*"1"*>

<tr>

<th>product ID</th>

<th>productName</th>

<th>Product Price</th>

</tr>

<%

**if** (request.getAttribute("data") != **null**) {

Iterator<ProductClass> iterator = p1.iterator();

**while** (iterator.hasNext()) {

ProductClass pc = iterator.next();

%>

<tr>

<td><%=pc.getId()%></td>

<td><%=pc.getName()%></td>

<td><%=pc.getPrice()%></td>

</tr>

<%

}

}

%>

</table>

<h1 style="color: *red*;">!.......THANK YOU FOR VISITING......!</h1>

</div>

</body>

</html>

**Product.java**

package com;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.RequestDispatcher;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

/\*\*

\* Servlet implementation class Product

\*/

@WebServlet("/Product")

public class Product extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public Product() {

super();

// TODO Auto-generated constructor stub

}

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

PrintWriter out = response.getWriter();

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

out.println("<!DOCTYPE html>");

out.println("<html>");

out.println("<head>");

out.println("<title>Product Details Portal</title>");

out.println("</head>");

out.println("<body>");

try {

int id = Integer.parseInt(request.getParameter("id"));

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

float price = Float.parseFloat(request.getParameter("price"));

ProductClass product1 = new ProductClass(id, name,price);

// product1 = new ProductClass(id, name, color, price));

HttpSession session = request.getSession();

session.setAttribute("data", product1);

request.setAttribute("data", product1.getProductDetails());

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

rd.forward(request, response);

out.println("</body>");

out.println("</html>");

} catch (NumberFormatException e) {

out.println(e);

} catch (Exception e) {

out.println(e);

}

}

/\*\*

\* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse

\* response)

\*/

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

/\*\*

\* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse

\* response)

\*/

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

}

**ProductClass.java**

**package** com;

**import** java.util.ArrayList;

**public** **class** ProductClass{

**private** **int** id;

**private** String name;

**private** **float** price;

**public** ProductClass(**int** id, String name, **float** price){

**this**.id=id;

**this**.name=name;

**this**.price=price;

}

**public** **void** setId(**int** id) {

**this**.id = id;

}

**public** **void** setName(String name) {

**this**.name = name;

}

**public** **void** setPrice(**float** price) {

**this**.price = price;

}

**public** **int** getId() {

**return** id;

}

**public** String getName() {

**return** name;

}

**public** **float** getPrice() {

**return** price;

}

**public** ArrayList<ProductClass> getProductDetails()

{

ArrayList<ProductClass> productList = **new** ArrayList<ProductClass>();

productList.add(**new** ProductClass(id, name, price));

**for** (ProductClass s : productList)

{

System.***out***.print("ID, Name,and Price of the product are : ");

System.***out***.println(s.id + " " + s.name + " " + s.price);

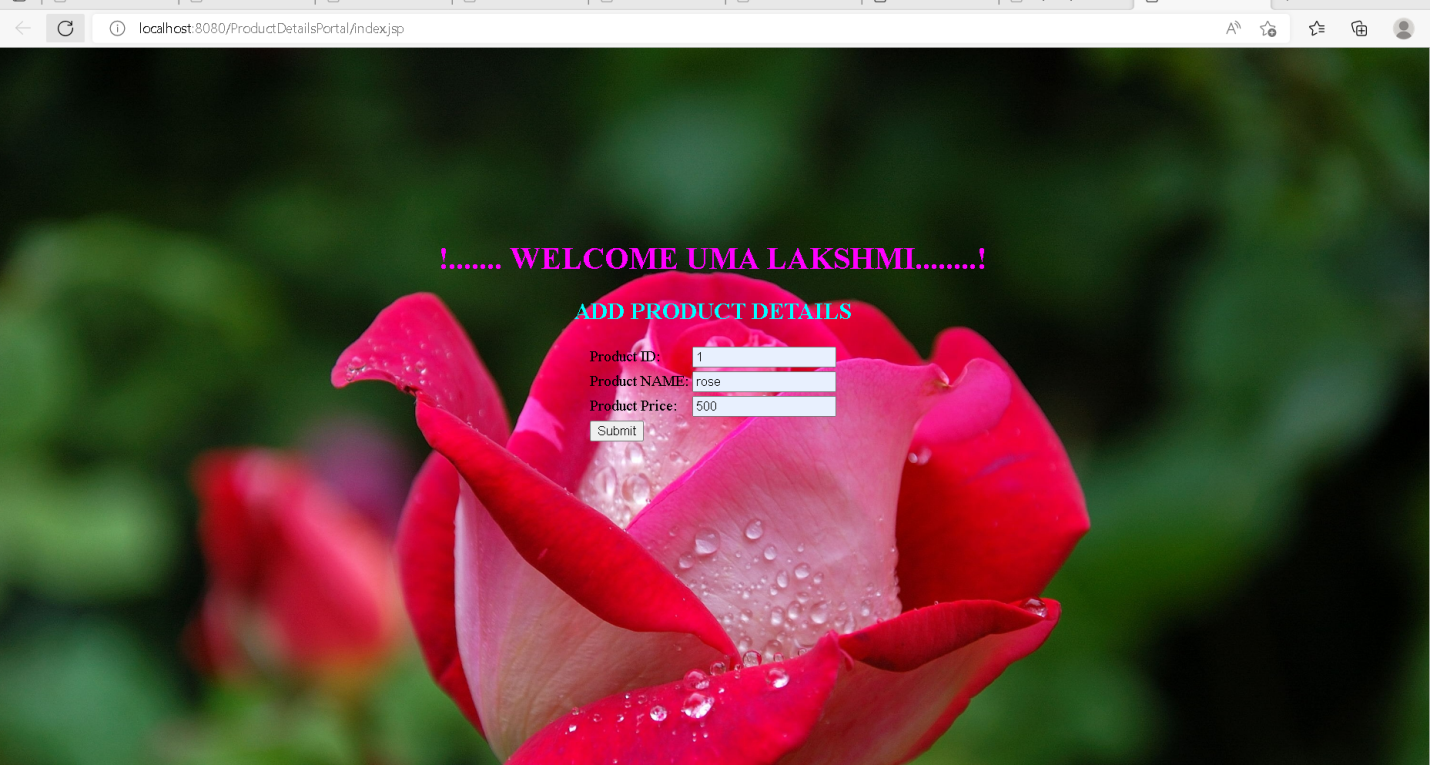
}

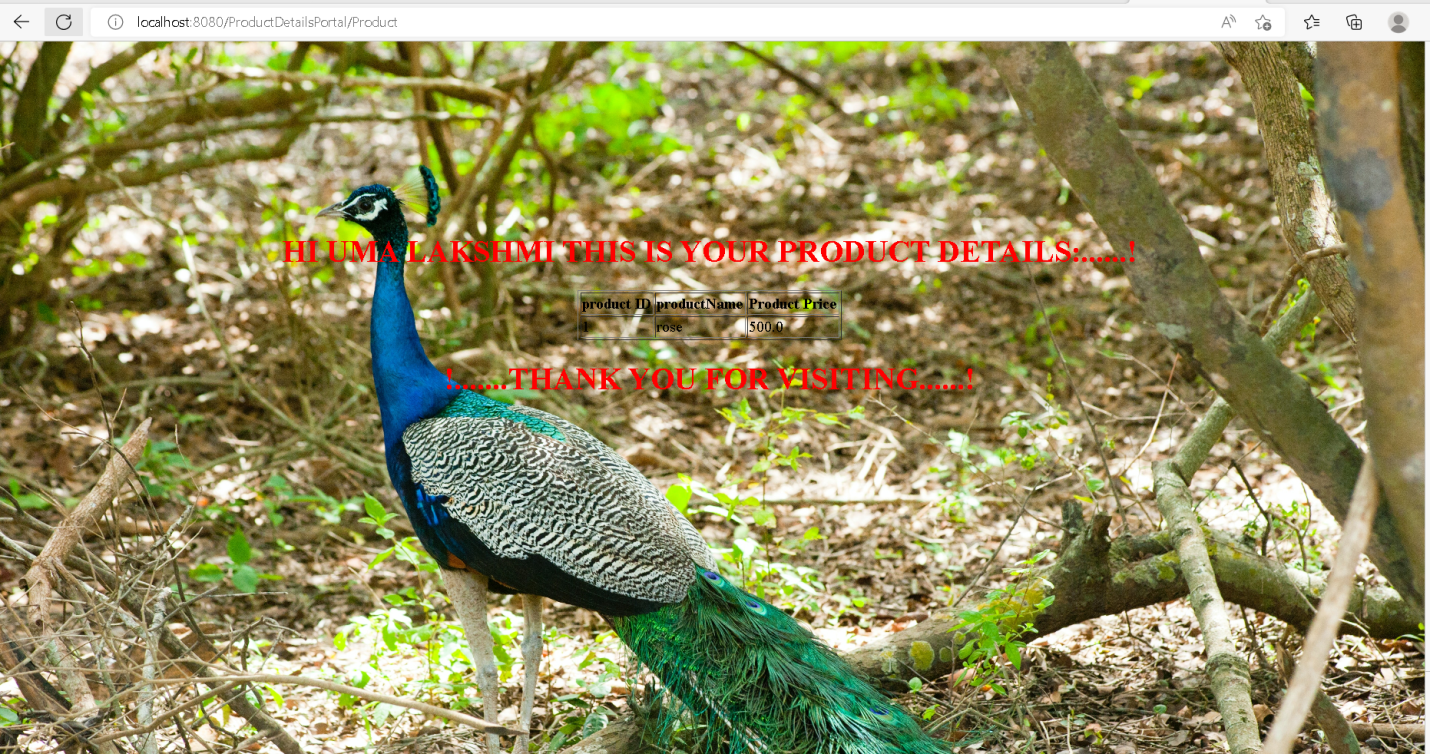
**return** productList;

}

}

**OUTPUT:**

****

****