

KIRANKUMAR D NATIKAR

EMPID: 2576955

SOURCE CODE:

Product Details Portal Source Code:

ProductClass.java

```
package com.product;
```

```
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);
        }
    }
}
```

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SOURCE CODE:

```
        }  
        return productList;  
    }  
}
```

Product.java(servlet)

```
package com.product;  
  
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() {
```

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```
        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());
```

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```
        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
```

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```
        * response)

    */

    protected void doPost(HttpServletRequest request, HttpServletResponse response)

        throws ServletException, IOException {

        processRequest(request, response);

    }

}
```

index.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Product Details</title>
</head>
<body>
    <form method="post" action="Product">
        <h2>Product Details</h2>
        Id: <input type="number" name="id" required>
        <br/>
        <br/>
        Name: <input type="text" name="name" required>
        <br/>
        <br/>
        Price: <input type="number" name="price" required>
        <br/>
        <br/>
        <input type="submit" value="Submit">
    </form>
</body>
</html>
```

profile.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<%@page import="java.util.ArrayList"%>
<%@page import="com.product.ProductClass"%>
<%@page import="java.util.Iterator"%>
<!DOCTYPE html>
```

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SOURCE CODE:

```
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Product Profile</title>

</head>
<body>

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

    <div align="center">
        <table border="1">

            <tr>
                <th>ID</th>
                <th>Name</th>
                <th>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>
            </div>

</body>
</html>
```

pom.xml

```
<project xmlns="http://maven.apache.org/POM/4.0.0"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/xsd/maven-4.0.0.xsd">
    <modelVersion>4.0.0</modelVersion>
    <groupId>Product-Details-Portal</groupId>
    <artifactId>Product-Details-Portal</artifactId>
    <version>1.0-SNAPSHOT</version>
```

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SOURCE CODE:

```
<packaging>war</packaging>
<build>
  <sourceDirectory>src</sourceDirectory>
  <plugins>
    <plugin>
      <artifactId>maven-compiler-plugin</artifactId>
      <version>3.8.0</version>
      <configuration>
        <source>1.8</source>
        <target>1.8</target>
      </configuration>
    </plugin>
    <plugin>
      <artifactId>maven-war-plugin</artifactId>
      <version>3.2.1</version>
      <configuration>

        <warSourceDirectory>WebContent</warSourceDirectory>
      </configuration>
    </plugin>
  </plugins>
</build>
<dependencies>
  <dependency>
    <groupId>javax.servlet</groupId>
    <artifactId>servlet-api</artifactId>
    <version>2.5</version>
    <scope>provided</scope>
  </dependency>
  <dependency>
    <groupId>javax.servlet.jsp</groupId>
    <artifactId>jsp-api</artifactId>
    <version>2.1</version>
    <scope>provided</scope>
  </dependency>
</dependencies>
</project>
```