

Phase 2 - practice project

Adding a New Product in the Database:

Sourcecode:

Index.html

```
<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<title>Adding Products</title>

</head>

<body>

    <h2>Enter Product Details here</h2>

    <form action="enterProductid" method="post">

        <label for="enterproductname">Enter Id:</label>

        <input type="number" id="id" name="ID" required><br><br>

        <label for="name">Enter Name:</label>

        <input type="text" id="name" name="name" required><br><br>

        <label for="price">Enter Price:</label>

        <input type="number" id="price" name="price" required><br><br>

        <input type="submit" value="Submit">

    </form>

</body>

</html>
```

success.jsp -

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

<html>

<head>

<title>Product Added Successfully</title>

</head>

<body>

<h2>Product Added Successfully!</h2>

<p>The product has been successfully added to the database.</p>

<a href="index.html">Add Another Product</a>

</body>

</html>
```

AddProduct.java -

```
import java.io.IOException;

import jakarta.servlet.ServletException;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest; import
jakarta.servlet.http.HttpServletResponse; public class AddProduct
extends HttpServlet { private static final long serialVersionUID =
1L;

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

// Retrieve form data
```

```
int ID=Integer.parseInt(request.getParameter("ID"));

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

double price = Double.parseDouble(request.getParameter("price"));

// Validate form data

if (name.isEmpty() || price==0) {

response.sendError(HttpServletResponse.SC_BAD_REQUEST, "Missing
information");

return;

}

// Create a Product object with form data

Product product = new Product();

product.setId(ID);

product.setName(name);

product.setPrice(price);

// Save the product using Hibernate

ProductDAO productDAO = new ProductDAO();

productDAO.saveProduct(product);

// Redirect to a success page

response.sendRedirect("success.jsp");

}

}
```

Product.java -

```
public class Product {  
  
    private int ID; private String  
    name; private double price;  
  
    public String getName() {  
  
        return name;  
  
    }  
  
    public void setName(String name) {  
  
        this.name = name;  
  
    }  
  
    public double getPrice() {  
  
        return price;  
  
    }  
  
    public void setPrice(double price) {  
  
        this.price = price;  
  
    }  
  
    public Product() {  
  
    }  
  
    public Product( int id, String name, double price) {  
  
        super();  

```

```

this.ID=id; this.name =
name; this.price = price;

}

public int getId() {

return ID;

}

public void setId(int id) {

this.ID = id;

}

}

```

hibernate.cfg.xml -

```

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

<!DOCTYPE hibernate-configuration PUBLIC "-//Hibernate/Hibernate
Configuration DTD 3.0//EN"

"http://www.hibernate.org/dtd/hibernate-configuration-3.0.dtd">

<hibernate-configuration>

<session-factory>

<!-- Database connection settings -->

<property name="hibernate.connection.driver_class">com.mysql.jdbc.Driver</property>

<property name="hibernate.connection.url">jdbc:mysql://localhost:3306/ecommerc
e</property>

<property name="hibernate.connection.username">root</property>

```

```
<property name="hibernate.connection.password">Lokeshmudhiraj@25</property>

<!-- Mapping files -->

<mapping resource="Product.hbm.xml"/>

</session-factory>

</hibernate-configuration>
```

Product.hbm.xml -

```
<?xml version="1.0" encoding="utf-8"?>

<!DOCTYPE hibernate-mapping PUBLIC "-//Hibernate/Hibernate
MappingDTD 3.0//EN"

"http://www.hibernate.org/dtd/hibernate-mapping-3.0.dtd">

<hibernate-mapping>

  <class name="Product" table="eproduct1">

    <id name="id" type="int" column="ID">

    </id>

    <property name="name" column="name" type="string"/>

    <property name="price" column="price" type="double"/>

  </class>

</hibernate-mapping>
```

web.xml -

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

```
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
xmlns="https://jakarta.ee/xml/ns/jakartaee"  
xmlns:web="http://xmlns.jcp.org/xml/ns/javaee"  
xsi:schemaLocation="https://jakarta.ee/xml/ns/jakartaee  
https://jakarta.ee/xml/ns/jakartaee/web-app\_5\_0.xsd  
http://xmlns.jcp.org/xml/ns/javaee http://java.sun.com/xml/ns/javaee/web-app\_2\_5.xsd" id="WebApp_ID" version="5.0">
```

```
<display-name>AddingNewProduct</display-name>
```

```
<welcome-file-list>
```

```
<welcome-file>index.html</welcome-file>
```

```
<welcome-file>index.jsp</welcome-file>
```

```
<welcome-file>index.htm</welcome-file>
```

```
<welcome-file>default.html</welcome-file>
```

```
<welcome-file>default.jsp</welcome-file>
```

```
<welcome-file>default.htm</welcome-file>
```

```
</welcome-file-list>
```

```
<servlet>
```

```
<description></description>
```

```
<display-name>AddProduct</display-name>
```

```
<servlet-name>AddProduct</servlet-name>
```

```
<servlet-class>AddProduct</servlet-class>
```

```
</servlet>  
  
<servlet-mapping>  
  
<servlet-name>AddProduct</servlet-name>  
  
<url-pattern>/addProduct</url-pattern>  
  
</servlet-mapping>  
  
</web-app>
```