# 1- productServlet Servlet Class

package Servlets;

import java.io.IOException;

import java.sql.SQLException;

import javax.servlet.RequestDispatcher;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

public class productServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

private static String name;

private static String price;

private static String pid;

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

doGet(request, response);

}

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

try {

insertUser(request, response);

} catch (SQLException ex) {

throw new ServletException(ex);

}

}

private void insertUser(HttpServletRequest request, HttpServletResponse response)

throws SQLException, IOException {

name = request.getParameter("product\_name");

price = request.getParameter("product\_price");

pid = request.getParameter("product\_id");

System.out.println("name and price are: "+name+"-"+price);

// Check if price isn't integer

if(name.equals("") || price.equals("") || pid.equals("")) {

request.setAttribute("TheState","");

request.setAttribute("TheState\_2","missing");

}

else {

try {

Integer.parseInt(price);

System.out.println("no Errors yet");

request.setAttribute("TheState","not null");

request.setAttribute("TheState\_2","not null");

request.setAttribute("name", name);

request.setAttribute("price", price);

request.setAttribute("id", pid);

}catch (NumberFormatException e) {

System.out.println("Not int !!!");

request.setAttribute("TheState\_2","number");

}

}

try {

listUser(request, response);

} catch (Exception e) {

System.out.println("list Products error!!");

}

}

private void listUser(HttpServletRequest request, HttpServletResponse response)

throws SQLException, IOException, ServletException {

System.out.println("Dispather on");

RequestDispatcher dispatcher = request.getRequestDispatcher("product\_info.jsp");

dispatcher.forward(request, response);

}

}

# 2- product\_info.jsp HTML Page

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

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

<%@ page contentType="text/html; charset=UTF-8" pageEncoding="UTF-8" isELIgnored="false"%>

<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>

<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>Insert title here</title>

<style type="text/css">

body{

background-color: #540B0E;

}

h1{

text-align: center; color: #EDDDD4;

font-family: Segoe UI;

font-size: 40px;

}

hr.new5 {

margin-top: -30px;

margin-left: 20%;

margin-right: 20%;

border: 1px solid #EDDDD4;

border-radius: 10px;

}

form{

text-align: center;

}

#span1{

display: inline-block;

text-align: left;

color: #EDDDD4;

font-family: Segoe UI;

font-size: 20px;

padding: 2px 10px;

padding-bottom: 20px;

}

input[type=text],input[type=password]{

width: 200px;

padding: 3px 10px;

margin: 8px 0;

box-sizing: border-box;

font-family: Segoe UI;

font-size: 15px;

}

input[type=button], input[type=submit], input[type=reset] {

background-color: #197278;

border: none;

color: #EDDDD4;

padding: 3px 30px;

text-decoration: none;

margin: 4px 2px;

cursor: pointer;

font-family: Segoe UI;

font-size: 20px;

}

table{

text-align: center; color: #EDDDD4;

font-family: Segoe UI;

font-size: 20px;

border: 1px solid #EDDDD4;

border-radius: 10px;

}

</style>

</head>

<body>

<h1>Product information</h1>

<hr class="new5">

<form action="insert" class="form">

<span id="span1">

<%

String x="";

String y="";

String z="";

String state=(String)request.getAttribute("TheState");

String state\_2=(String)request.getAttribute("TheState\_2");

if(state==null){

}

else if( state.equals("")){

}

else{

x=(String)request.getAttribute("name");

y=(String)request.getAttribute("price");

z=(String)request.getAttribute("id");

}

%>

Product ID

<input type="text" placeholder="Product ID" name="product\_id" value="<%=z%>" ><br/>

Product Name

<input type="text" placeholder="Product Name" name="product\_name" value="<%=x%>" ><br/>

Product Price

<input type="text" placeholder="Product Price" name="product\_price" value="<%=y%>" ><br/>

<%

if(state\_2==null){

}

else if( state\_2.equals("number")){

%>Price take only numbers!! <%

}

else if( state\_2.equals("missing")){

%>Missing fields !!<%

}

%>

</span>

<br/>

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

</form>

<div align="center">

<table border="1" cellpadding="10">

<caption><h2>Product information</h2></caption>

<tr>

<th>ID</th>

<th>Name</th>

<th>Price</th>

</tr>

<tr>

<td><%=z%></td>

<td><%=x%></td>

<td><%=y%></td>

</tr>

</table>

</div>

</body>

</html>

# 3- Web.xml File

<!DOCTYPE web-app PUBLIC

"-//Sun Microsystems, Inc.//DTD Web Application 2.3//EN"

"http://java.sun.com/dtd/web-app\_2\_3.dtd" >

<web-app>

<display-name>Archetype Created Web Application</display-name>

<servlet>

<description></description>

<servlet-name>product\_Servlet</servlet-name>

<display-name>productServlet</display-name>

<description></description>

<servlet-class>Servlets.productServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>product\_Servlet</servlet-name>

<url-pattern>/insert</url-pattern>

</servlet-mapping>

</web-app>

# 4-pom.xml File

<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/maven-v4\_0\_0.xsd">

<modelVersion>4.0.0</modelVersion>

<groupId>test1</groupId>

<artifactId>Practice\_3-20\_Add\_Products</artifactId>

<packaging>war</packaging>

<version>0.0.1-SNAPSHOT</version>

<name>Practice\_3-20\_Add\_Products Maven Webapp</name>

<url>http://maven.apache.org</url>

<dependencies>

<dependency>

<groupId>junit</groupId>

<artifactId>junit</artifactId>

<version>3.8.1</version>

<scope>test</scope>

</dependency>

<!-- https://mvnrepository.com/artifact/javax.servlet.jsp/javax.servlet.jsp-api -->

<dependency>

<groupId>javax.servlet.jsp</groupId>

<artifactId>javax.servlet.jsp-api</artifactId>

<version>2.3.1</version>

<scope>provided</scope>

</dependency>

<!-- https://mvnrepository.com/artifact/javax.servlet/jstl -->

<dependency>

<groupId>javax.servlet</groupId>

<artifactId>jstl</artifactId>

<version>1.2</version>

</dependency>

<!-- https://mvnrepository.com/artifact/javax.servlet/javax.servlet-api -->

<dependency>

<groupId>javax.servlet</groupId>

<artifactId>javax.servlet-api</artifactId>

<version>4.0.1</version>

<scope>provided</scope>

</dependency>

</dependencies>

<build>

<finalName>Practice\_3-20\_Add\_Products</finalName>

</build>

</project>