**//com.entity**

**//product.java**

package com.entity;

public class product {

private int productId;

private String productName;

private String productCategory;

private String productDescription;

public product(int parseInt, String parameter, String parameter2, String productDescription2) {

// TODO Auto-generated constructor stub

}

public void Product(int productId, String productName, String productCategory, String productDescription) {

super();

this.productId = productId;

this.productName = productName;

this.productCategory = productCategory;

this.productDescription = productDescription;

}

public product() {

super();

}

public int getProductId() {

return productId;

}

public void setProductId(int productId) {

this.productId = productId;

}

public String getProductName() {

return productName;

}

public void setProductName(String productName) {

this.productName = productName;

}

public String getProductCategory() {

return productCategory;

}

public void setProductCategory(String productCategory) {

this.productCategory = productCategory;

}

public String getProductDescription() {

return productDescription;

}

public void setProductDescription(String productDescription) {

this.productDescription = productDescription;

}

@Override

public String toString() {

return "Product: " + productName + "<br/>" + "Product ID: " + productId + "<br/>" + "Category: " + productCategory + "<br/>" + "Description: " + productDescription;

}

}

**//com.servlet**

**//ProductController.java**

package com.servlet;

import java.io.IOException;

import java.util.HashMap;

import java.util.Map;

import java.util.regex.Pattern;

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;

import org.apache.tomcat.util.file.Matcher;

import com.entity.product;

/\*\*

\* Servlet implementation class ProductController

\*/

@WebServlet("/ProductController")

public class ProductController extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public ProductController() {

super();

// TODO Auto-generated constructor stub

}

/\*\*

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

\*/

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

// TODO Auto-generated method stub

response.getWriter().append("Served at: ").append(request.getContextPath());

}

/\*\*

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

\*/

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

// TODO Auto-generated method stub

Map<String, String> errors = new HashMap<String, String>();

String productDescription = "";

HttpSession session = request.getSession();

Pattern pattern = Pattern.compile(regex);

java.util.regex.Matcher matcher = pattern.matcher(request.getParameter("productCategory"));

if(!matcher.matches()) {

errors.put("invalidCateg","Invalid category<br/>");

}

if(request.getParameter("productName").length() == 0) {

errors.put("nullProdName","Enter a product name<br/>");

}

if(request.getParameter("productDescription").length() == 0) {

productDescription = "No description";

}else {

productDescription = request.getParameter("productDescription");

}

try {

Integer.parseInt(request.getParameter("productId"));

}catch(NumberFormatException e) {

errors.put("notInt", "<br/>Invalid product ID<br/>");

}

if(errors.isEmpty()) {

product p1 = new product(Integer.parseInt(request.getParameter("productId")), request.getParameter("productName"), request.getParameter("productCategory"), productDescription);

session.setAttribute("product", p1);

response.sendRedirect("display.jsp");

}else {

session.setAttribute("errors", errors);

response.sendRedirect("index.jsp");

}

}

}

**display.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>Insert title here</title>

</head>

<body>

<div align="center">

<h2>Product Display</h2>

<div>${product}</div>

</div>

<a href="index.jsp">Display more products</a>

</body>

</html>

**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>Insert title here</title>

</head>

<body>

<div align="center">

<h2>Insert Product</h2>

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

Product ID: <input type="text" name="productId"><br/>

Product Name: <input type="text" name="productName"><br/>

Category: <input type="text" name="productCategory"><br/>

Description: <input type="text" name="productDescription"><br/>

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

<span class="error">${errors.notInt}</span>

<span class="error">${errors.invalidCateg}</span>

<span class="error">${errors.nullProdName}</span>

<%

session.invalidate();

%>

</form>

</div>

</body>

</html>