**Source Code For Project:**

**Index.html-**

<!**DOCTYPE** html>

<**html**>

<**head**>

<**title**>Product Details</**title**>

</**head**>

<**body**>

<**h2**>Product Details</**h2**>

<**form** action=*"ProductServlet"* method=*"GET"*>

<**label** for=*"productId"*>Enter Product ID:</**label**>

<**input** type=*"text"* id=*"productId"* name=*"productId"*>

<**br**><**br**>

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

</**form**>

</**body**>

</**html**>

**Product Class**

**public class Product {**

**private int id;**

**private String name;**

**private double price;**

**public Product() {**

**}**

**public Product(int id, String name, double price) {**

**this.id = id;**

**this.name = name;**

**this.price = price;**

**}**

**// Getters and setters**

**public int getId() {**

**return id;**

**}**

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

**this.id = id;**

**}**

**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;**

**}**

**}**

**ProductServlet:**

**import java.io.IOException;**

**import java.io.PrintWriter;**

**import java.sql.Connection;**

**import java.sql.DriverManager;**

**import java.sql.PreparedStatement;**

**import java.sql.ResultSet;**

**import java.sql.SQLException;**

**import javax.servlet.ServletException;**

**import javax.servlet.http.HttpServlet;**

**import javax.servlet.http.HttpServletRequest;**

**import javax.servlet.http.HttpServletResponse;**

**import com.mysql.cj.jdbc.Driver;**

**import com.mysql.cj.jdbc.Driver;**

**public class ProductServlet extends HttpServlet {**

**private static final long serialVersionUID = 1L;**

**// Database connection details**

**private static final String DB\_URL = "jdbc:mysql://localhost:3306/products";**

**private static final String DB\_USERNAME = "root";**

**private static final String DB\_PASSWORD = "Spidey@0987";**

**protected void doGet(HttpServletRequest request, HttpServletResponse response)**

**throws ServletException, IOException {**

**try {**

**Class.forName("com.mysql.jdbc.Driver");**

**} catch (ClassNotFoundException e) {**

**e.printStackTrace();**

**}**

**// Retrieve the product ID from the request**

**String productId = request.getParameter("productId");**

**// Validate the product ID (add your own validation logic)**

**if (productId == null || productId.isEmpty()) {**

**response.sendError(HttpServletResponse.SC\_BAD\_REQUEST, "Product ID is required");**

**return;**

**}**

**// Database connection objects**

**Connection conn = null;**

**PreparedStatement stmt = null;**

**ResultSet rs = null;**

**try {**

**// Establish a connection to the database**

**DriverManager.registerDriver(new Driver());**

**conn = DriverManager.getConnection(DB\_URL, DB\_USERNAME, DB\_PASSWORD);**

**// Prepare the SQL statement to retrieve product details**

**String sql = "SELECT \* FROM products WHERE id = ?";**

**stmt = conn.prepareStatement(sql);**

**stmt.setString(1, productId);**

**// Execute the query**

**rs = stmt.executeQuery();**

**// Prepare the response**

**response.setContentType("text/html");**

**PrintWriter out = response.getWriter();**

**// Display the product details in the response**

**if (rs.next()) {**

**int id = rs.getInt("id");**

**String name = rs.getString("name");**

**double price = rs.getDouble("price");**

**out.println("<html><body>");**

**out.println("<h2>Product Details</h2>");**

**out.println("<p>ID: " + id + "</p>");**

**out.println("<p>Name: " + name + "</p>");**

**out.println("<p>Price: " + price + "</p>");**

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

**} else {**

**out.println("<html><body>");**

**out.println("<h2>Product Not Found</h2>");**

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

**}**

**} catch (SQLException e) {**

**e.printStackTrace();**

**} finally {**

**// Close the database resources**

**if (rs != null) {**

**try {**

**rs.close();**

**} catch (SQLException e) {**

**e.printStackTrace();**

**}**

**}**

**if (stmt != null) {**

**try {**

**stmt.close();**

**} catch (SQLException e) {**

**e.printStackTrace();**

**}**

**}**

**if (conn != null) {**

**try {**

**conn.close();**

**} catch (SQLException e) {**

**e.printStackTrace();**

**}**

**}**

**}**

**}**

**}  
  
  
Web.xml:**

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

**<web-app xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"* xmlns=*"http://java.sun.com/xml/ns/javaee"* xsi:schemaLocation=*"http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/ns/javaee/web-app\_2\_5.xsd"* id=*"WebApp\_ID"* version=*"2.5"*>**

**<display-name>Product</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>ProductServlet</display-name>**

**<servlet-name>ProductServlet</servlet-name>**

**<servlet-class>ProductServlet</servlet-class>**

**</servlet>**

**<servlet-mapping>**

**<servlet-name>ProductServlet</servlet-name>**

**<url-pattern>/ProductServlet</url-pattern>**

**</servlet-mapping>**

**</web-app>**