# **Retrieve Product Details Using Product ID Source Code**

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 jakarta.servlet.ServletException;

import jakarta.servlet.annotation.WebServlet;

import jakarta.servlet.http.HttpServlet;

import jakarta.servlet.http.HttpServletRequest;

import jakarta.servlet.http.HttpServletResponse;

@WebServlet("/ProductDetailsServlet")

public class ProductDetailsServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

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

try {

// Load the MySQL JDBC driver

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

// Establish a connection

String jdbcUrl = "jdbc:mysql://localhost:3306/ecommerce";

String username = "root";

String password = "1234";

Connection connection = DriverManager.getConnection(jdbcUrl, username, password);

// Prepare and execute the SQL query

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

try (PreparedStatement statement = connection.prepareStatement(sql)) {

statement.setInt(1, productId);

ResultSet resultSet = statement.executeQuery();

response.setContentType("text/html");

PrintWriter out = response.getWriter();

if (resultSet.next()) {

// Display product details

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

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

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

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

out.println("<p>Price: $" + resultSet.getBigDecimal("price") + "</p>");

out.println("<p>Description: " + resultSet.getString("description") + "</p>");

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

} else {

// Display error message

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

out.println("<h2>Error:</h2>");

out.println("<p>Product not found for ID: " + productId + "</p>");

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

}

}

// Close the connection

connection.close();

} catch (Exception e) {

throw new ServletException("Error processing request", e);

}

}

}

<!DOCTYPE html>

<html lang=*"en"*>

<head>

<meta charset=*"UTF-8"*>

<meta name=*"viewport"* content=*"width=device-width, initial-scale=1.0"*>

<title>Product Details</title>

</head>

<body>

<form action=*"/ECommerceWebApp/ProductDetailsServlet"* method=*"post"*>

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

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

<button type=*"submit"*>Submit</button>

</form>

</body>

</html>

CREATE DATABASE ecommerce;

USE ecommerce;

CREATE TABLE products (

id INT PRIMARY KEY,

name VARCHAR(255),

price DECIMAL(10, 2),

description TEXT

);

INSERT INTO products VALUES (1, 'Product 1', 19.99, 'Description of Product 1');

INSERT INTO products VALUES (6, 'Product iphone', 2229.99, 'Description of Product 2');

select \* from products;

-- Add more products as needed