**Demonstrate Connection, Statement, and ResultSet in JDBC.**

**DBConnection.java**

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.SQLException;

public class DBConnection {

private static final String DRIVER\_CLASS = "com.mysql.jdbc.Driver";

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

private static final String USERNAME = "root";

private static final String PASSWORD = "root";

public static Connection getConnection() throws ClassNotFoundException, SQLException {

Class.forName(DRIVER\_CLASS);

Connection connection = DriverManager.getConnection(DB\_URL, USERNAME, PASSWORD);

return connection;

}

public static void closeConnection(Connection connection) {

try {

if (connection != null) {

connection.close();

}

} catch (SQLException e) {

e.printStackTrace();

}

}

}

**ProductDetails.java**

import java.io.IOException;

import java.io.PrintWriter;

import java.sql.Connection;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

public class ProductDetails extends HttpServlet {

private static final long serialVersionUID = 1L;

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

try {

Connection connection = DBConnection.getConnection();

Statement statement = connection.createStatement();

ResultSet resultSet = statement.executeQuery("SELECT \* FROM Product");

out.println("<html><head><title>Product Details</title></head><body>");

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

while (resultSet.next()) {

int id = resultSet.getInt(1);

String name = resultSet.getString(2);

double price = resultSet.getDouble(3);

String color = resultSet.getString(4);

String description = resultSet.getString(5);

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

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

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

out.println("<p>ProductColor: " + color + "</p>");

out.println("<p>ProductDescription: " + description + "</p>");

out.println("<hr>");

}

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

DBConnection.closeConnection(connection);

} catch (ClassNotFoundException | SQLException e) {

e.printStackTrace();

out.println("Error retrieving product details.");

}

}

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

doGet(request, response);

}

}

**web.xml**

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

<web-app xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"* xmlns=*"http://xmlns.jcp.org/xml/ns/javaee"* xsi:schemaLocation=*"http://xmlns.jcp.org/xml/ns/javaee http://xmlns.jcp.org/xml/ns/javaee/web-app\_3\_1.xsd"* id=*"WebApp\_ID"* version=*"3.1"*>

<display-name>JDBConStateResultdemo</display-name>

<servlet>

<servlet-name>ProductDetails</servlet-name>

<servlet-class>ProductDetails</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>ProductDetails</servlet-name>

<url-pattern>/ProductDetails</url-pattern>

</servlet-mapping>

<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>

</web-app>

**index.html**

<!DOCTYPE html>

<html>

<head>

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

<title>JDBC </title>

</head>

<body>

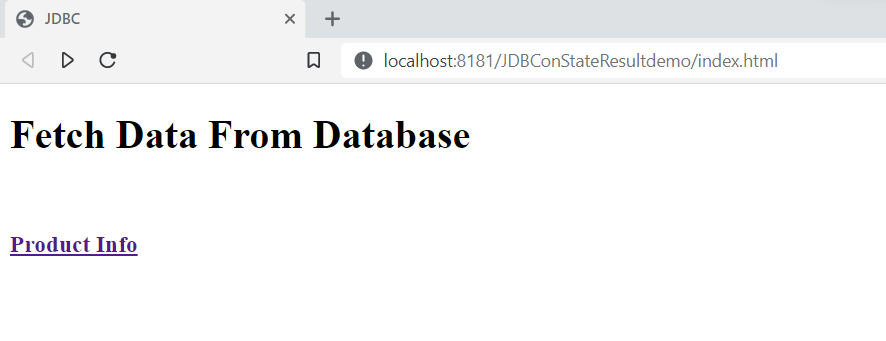
<h1>Fetch Data From Database</h1>

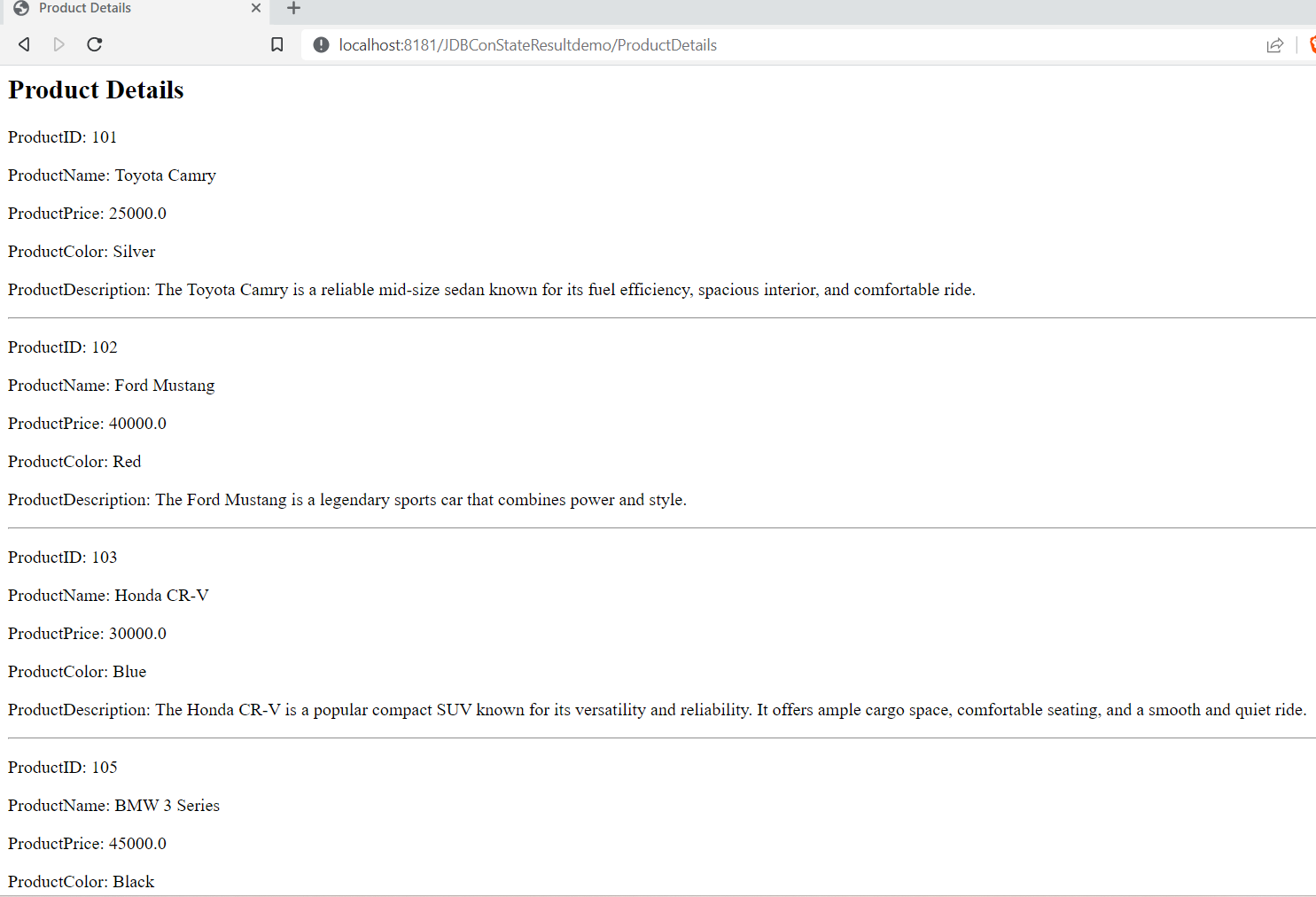
<h3><a href=*"ProductDetails"*>Product Info</a></h3><br>

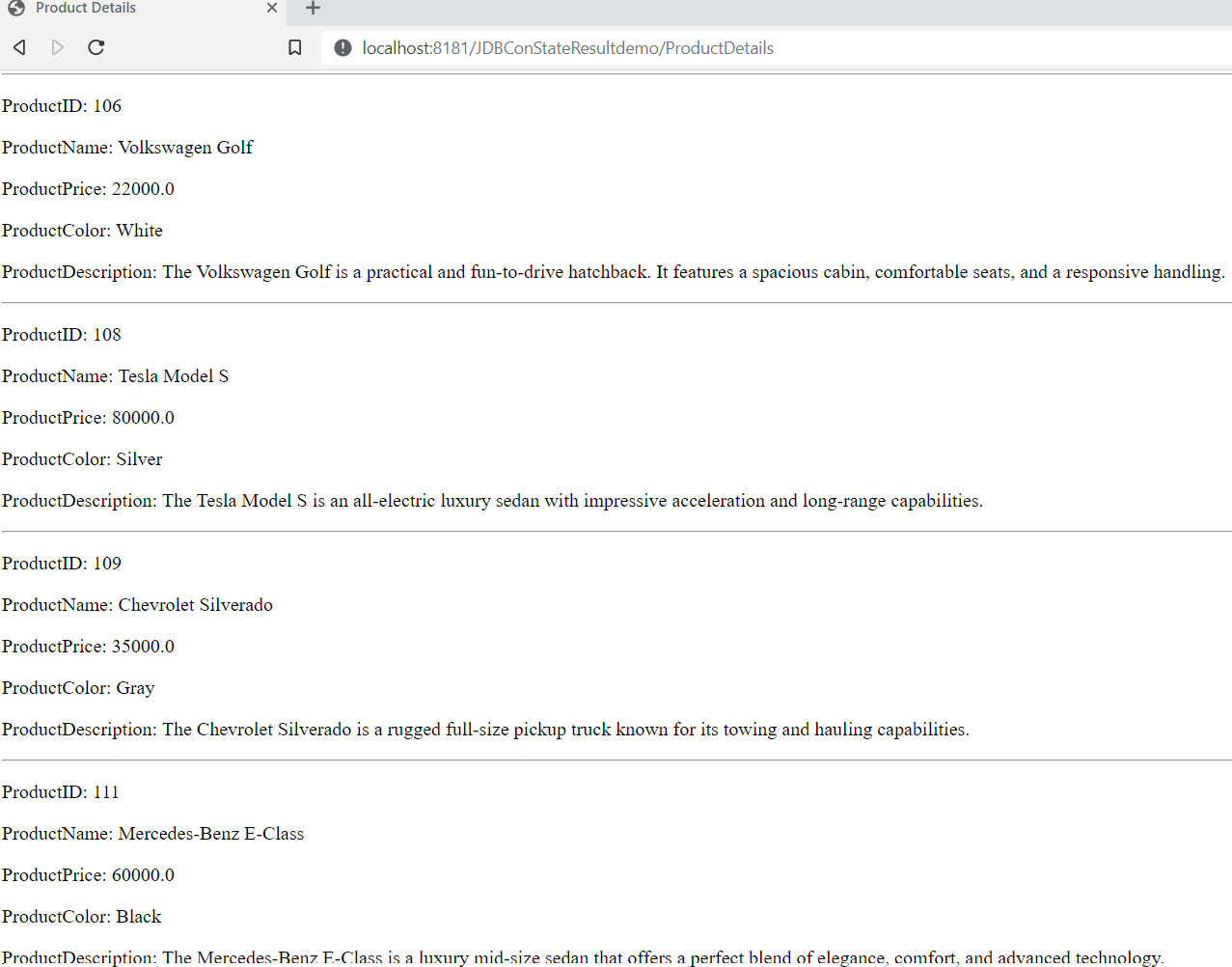
</body>

</html>

**OUTPUT**

****

****

****