**Source Code**

**Create a database with a table product and insert the values**

**In terminal:**

mysql –u root –p

create database jdbcproject;

use jdbcproject;

create table product(id int primary key, name varchar(100), price decimal(10,2), stock int);

insert into product values(100, ‘Oppo A78 5G’, 29999, 30);

insert into product values(101, ‘Redmi Pro 5G’, 39999, 9);

insert into product values(102, “Vivo v36”, 24599, 86);

insert into product values(103, “OnePlus U8”, 38999, 190);

insert into product values(104, “Apple i-phone i15 pro”, 149999, 21);

select \* from product;

**Create an html file with a form to accept given product ID**

**In eclipse IDE**

HTML file *index.html*

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<title>JDBC project</title>

</head>

<body>

<h1>WELCOME TO THE PRODUCTS SITE!</h1>

<form action="JdbcServlet" method="get">

<p>Give Product ID to know its details</p>

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

<br/>

<input type="submit">

</form>

</body>

</html>

**Create a servlet that will take the product ID and use JDBC to query the database for the product**

*JdbcServlet.java:*

package jdbcdemo;

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 java.sql.Statement;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

/\*\*

\* Servlet implementation class JdbcServlet

\*/

@WebServlet("/JdbcServlet")

public class JdbcServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* Default constructor.

\*/

public JdbcServlet() {

// 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());

response.setContentType("text/html");

//PrintWriter out = response.getWriter();

Connection con = null;

PreparedStatement ps = null;

ResultSet rs = null;

try {

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

con =DriverManager.getConnection("jdbc:mysql://localhost:3306/jdbcproject","root","root");

int p\_id = Integer.valueOf(request.getParameter("id"));

ps = con.prepareStatement("select \* from product where id=?");

ps.setInt(1, p\_id);

rs = ps.executeQuery();

if(rs.next()) {

System.out.println("Product ID is " + rs.getInt("id"));

System.out.println("Product name is " + rs.getString("name"));

System.out.println("Price in Rupees- " + rs.getBigDecimal("price"));

System.out.println("Quantity in stock " + rs.getInt("stock"));

}

else

System.out.println("Given ID is not available");

con.close();

}

catch(Exception e) {

System.out.println(e.getMessage());

}

//finally {

System.out.println("Thankyou!");

}

/\*\*

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

\*/

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

// TODO Auto-generated method stub

doGet(request, response);

}

}