**SOURCE CODE FOR PRODUCT ID:**

* Created a Dyanmic Web Project naming “Product Details”

1.DB Connection with Package name (com.ecommerce)

package com.ecommerce;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.SQLException;

public class DBConnection {

private Connection connection;

public DBConnection(String dbURL, String user, String pwd) throws ClassNotFoundException, SQLException{

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

this.connection = DriverManager.getConnection(dbURL, user, pwd);

}

public Connection getConnection(){

return this.connection;

}

public void closeConnection() throws SQLException {

if (this.connection != null)

this.connection.close();

}

}

**2.Servlet naming ProductDetails:**

import java.io.IOException;

import java.io.InputStream;

import java.io.PrintWriter;

import java.math.BigDecimal;

import java.sql.CallableStatement;

import java.sql.ResultSet;

import java.sql.ResultSetMetaData;

import java.sql.SQLException;

import java.sql.Statement;

import java.util.Properties;

import java.io.IOException;

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 com.ecommerce.DBConnection;

@WebServlet("/ProductDetails")

public class ProductDetails extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public ProductDetails() {

super();

// TODO Auto-generated constructor stub

}

/\*\*

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

\*/

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

try {

PrintWriter out = response.getWriter();

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

InputStream in = getServletContext().getResourceAsStream("/WEB-INF/config.properties");

Properties props = new Properties();

// props.load(in);

//connection information

DBConnection conn = new DBConnection("jdbc:mysql://localhost:3306/ecommerce", "root", "T@nmay8399");

Statement stmt = conn.getConnection().createStatement(ResultSet.TYPE\_SCROLL\_INSENSITIVE, ResultSet.CONCUR\_READ\_ONLY);

stmt.executeUpdate("insert into eproduct (name, price, date\_added) values ('New Product', 17800.00, now())");

//query the table and get all information

ResultSet rst = stmt.executeQuery("select \* from pets.products");

//find what the user typed into the search box

String productSearch = request.getParameter("search");

//out.println(productSearch);

//user hasn't typed anything so display table

if(productSearch == null)

{

out.println("The following are the elements in the Pets table" + "<Br>" + "<Br>");

//simple while loop to print all elements in table

while (rst.next()) {

out.println(rst.getInt("ID") + ": " + rst.getString("name") + " "

+ rst.getString("color") + " costs: $" + rst.getDouble("price") + "<Br>");

}

}

//user typed something

else

{

//select the row corresponding to the id number

String sql\_res= "select \* from pets.products where id=" + productSearch;

ResultSet inTable = stmt.executeQuery(sql\_res);

//if not empty then print all product details

if(inTable.next())

out.println(inTable.getInt("ID") + ": " + inTable.getString("name") + " "

+ inTable.getString("color") + " costs: $" + inTable.getDouble("price") + "<Br>");

//empty so print error message

else

out.println("There was no element with product ID: " + productSearch + " found in the table, please try again");

}

stmt.close();

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

conn.closeConnection();

} catch (ClassNotFoundException e) {

e.printStackTrace();

} catch (SQLException e) {

e.printStackTrace();

}

}

/\*\*

\* @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);

}

}

**3.HTML File naming Index.html**

<!DOCTYPE html>

<html>

<head>

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

<title>Retrieve Product Details using ID</title>

</head>

<body>

<a href=*"list"*>Click here to view the table</a><br><br>

<form name=*"loginForm"* method=*"post"* action=*"list"*>

Enter the product id number of the pet you would like to search for:<br> <input type=*"text"* name=*"search"*/> <br/>

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

</form>

</body>

</html>

**4.Properties File named as config.properties**

url=jdbc:mysql://localhost:3306/ecommerce

userid=root

password=T@nmay8399

**5.WEB-XML File :**

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

<web-app>

<display-name>JDBC Statements and Resultsets</display-name>

<welcome-file-list>

<welcome-file>index.html</welcome-file>

<welcome-file>index.htm</welcome-file>

<welcome-file>index.jsp</welcome-file>

<welcome-file>default.html</welcome-file>

<welcome-file>default.htm</welcome-file>

<welcome-file>default.jsp</welcome-file>

</welcome-file-list>

<servlet>

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

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

</servlet>

<servlet-mapping>

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

<url-pattern>/list</url-pattern>

</servlet-mapping>

</web-app>