**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** 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;

/\*\*

\* Servlet implementation class ProductDetails

\*/ @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 {

// **TODO** Auto-generated method stub

## 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", "root");

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())");

pets.product");

//query the table and get all information ResultSet rst = stmt.executeQuery("select \* from

//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("color") + " "

rst.getDouble("price") + "<Br>");

}

+ rst.getString("name") + " costs: $" +

}

//user typed something

## else

{

productSearch;

//select the row corresponding to the id number

String sql\_res= "select \* from pets.product where id=" + ResultSet inTable = stmt.executeQuery(sql\_res);

//if not empty then print all product details

**if**(inTable.next()) out.println(inTable.getInt("ID") + ": " +

inTable.getString("color") + " "

inTable.getDouble("price") + "<Br>");

+ inTable.getString("name") + " costs: $" +

//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);

}

}

**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();

}

}

<!DOCTYPE html>

<html>

<head>

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

<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>

# Drop table pets.product; CREATE TABLE pets.product( id INT(11) AUTO\_INCREMENT, name VARCHAR(256),

color VARCHAR(256), price DECIMAL(19,2), PRIMARY KEY (`id`)

# );