

pom.xml file --->

```
<project xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
https://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.PetShop</groupId>
  <artifactId>PetShop</artifactId>
  <version>0.0.1-SNAPSHOT</version>

  <packaging>war</packaging>

  <properties>
    <maven.compiler.target>1.8</maven.compiler.target>
    <maven.compiler.source>1.8</maven.compiler.source>
  </properties>

  <dependencies>
    <!--
https://mvnrepository.com/artifact/javax.servlet/javax.servlet-api -->
    <dependency>
      <groupId>javax.servlet</groupId>
      <artifactId>javax.servlet-api</artifactId>
      <version>4.0.1</version>
      <scope>provided</scope>
    </dependency>
    <!-- https://mvnrepository.com/artifact/javax.servlet.jsp/jsp-api
-->
    <dependency>
      <groupId>javax.servlet.jsp</groupId>
      <artifactId>jsp-api</artifactId>
      <version>2.2.1-b03</version>
      <scope>provided</scope>
    </dependency>

    <!-- https://mvnrepository.com/artifact/mysql/mysql-connector-java
-->
    <dependency>
      <groupId>mysql</groupId>
      <artifactId>mysql-connector-java</artifactId>
      <version>8.0.23</version>
    </dependency>
```

```

    </dependencies>
    <build>
        <plugins>
            <plugin>
                <groupId>org.apache.maven.plugins</groupId>
                <artifactId>maven-war-plugin</artifactId>
                <version>3.3.1</version>
            </plugin>
            <plugin>
                <groupId>org.apache.tomcat.maven</groupId>
                <artifactId>tomcat7-maven-plugin</artifactId>
                <version>2.2</version>
            </plugin>
        </plugins>
    </build>
</project>

```

html File in Webapp --->

```

<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>

Welcome to the PetStore

</body>
</html>

```

PetsServlet file in src-main-java file --->

```

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.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.Product.model.DBConnection;

@WebServlet("/PetShopServlet")

public class PetsServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;

    protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
        // TODO Auto-generated method stub

        try {
            PrintWriter out = response.getWriter();
            out.println("<html><body>");

            String userid = "root";
            String password = "Veda@1202189";

            DBConnection conn = new DBConnection(url, userid, password);
            java.sql.Statement stmt =
conn.getConnection().createStatement(ResultSet.TYPE_SCROLL_INSENSITIVE,
ResultSet.CONCUR_READ_ONLY);
            ResultSet rst = stmt.executeQuery("select * from pets");
            //+ "where id = " + petId);

            out.println("<TABLE><TR><TH>List</TH><TH>of</TH><TH>Pets</TH></TR>");
            out.println("</table>"); // Blank space
            out.println("<TABLE><TR><TH>NAME</TH></TR>");
            out.println("</table>");// Blank space

```

```

//prints out list of pets with id number
while (rst.next()) {
    out.println(rst.getInt("id")+": "+rst.getString("name")+"<Br>");
}

int id = 1;

String pet = request.getParameter("petId");

int petId = 0;

    boolean hasError = false;
    /*
    //below code is breaking for some reason
    if(pet.isEmpty() ) {
        out.print("<h1>Must input someting</h1>");
        hasError = true;
    }else if(!pet.matches("-?(0|[1-9]\\d*))") {
        out.println("<h1>Not a number. Please Try again</h1>");
        hasError = true;
    }else {
        rst = stmt.executeQuery("select count(*) from pets");
        petId = Integer.parseInt(pet);
        while (rst.next()) {
            petId = rst.getInt(1);
        }
        if(0 > petId || petId > id) {
            hasError = true;
            out.println("<h1> Invalid. Please input valid id</h1>");
        }
    }

    if(hasError == false) {
        rst = stmt.executeQuery("select * from products where id="
+ pet);
    }
    while (rst.next()) {
        out.println("<tr><td>" + rst.getString("name") + "</td>" + "<td>" +
            rst.getString("color") + "</td><td>" +
rst.getBigDecimal("price") + "</td></tr>");
    }
    */

    out.println("</table>");

    stmt.close();

```

```

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

    } catch (ClassNotFoundException e) {
        e.printStackTrace();
    } catch (SQLException e) {
        e.printStackTrace();
    }
}

protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
    // TODO Auto-generated method stub

    //response.setContentType("text/html");

    String url = "jdbc:mysql://localhost:3306/mydb";

    //used root here
    String userid = "root";
    String password = "Veda@1202189";

    try {
        PrintWriter out =response.getWriter();
        out.println("<html><body>");

        String name = request.getParameter("name");

        DBConnection conn = new DBConnection(url, userid,
password);

        Statement stmt =
conn.getConnection().createStatement(ResultSet.TYPE_SCROLL_INSENSITIVE,ResultSet.CO
NCUR_READ_ONLY);
        ResultSet rst =stmt.executeQuery("select * from products where id
="+name);

        out.println("<TABLE><TR><TH>NAME</TH><TH>  COLOR</TH><TH>
PRICE</TH></TR>");
        out.println("</table>");

        while (rst.next()) {
            out.println(rst.getInt("id")+": " +rst.getString("name")+",

```

```

"+rst.getString("color")+", $"+rst.getBigDecimal("price")+".00<Br>");
    }

    stmt.close();

    out.println("</body></html>");
    conn.closeConnection();
}
    catch (ClassNotFoundException e) {
        e.printStackTrace();
    }
    catch (SQLException e) {
        e.printStackTrace();
    }

    doGet(request, response);

}

}

```

DBConnection file for the Connection of MYSQL DataBase --->

```

package com.example.model;

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.cj.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();
}

}
```