## Phase – 2 Practice Project: Assisted Practice

## 11. Demonstrate a project to set up JDBC environment.

## • Code

```
index.html
```

```
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>JDBC Setup</title>
</head>
<body>
<a href="init">Initialize JDBC</a><br>
</html>
DBConnection.java
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.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();
config.properties
url=jdbc:mysql://localhost:3306/ecommerce
userid=root
password=master
DemoJDBC.java
package com.ecommerce;
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.ecommerce.DBConnection;
* Servlet implementation class DemoJDBC
@WebServlet("/DemoJDBC")
public class DemoJDBC extends HttpServlet {
private static final long serialVersionUID = 1L;
* @see HttpServlet#HttpServlet()
public DemoJDBC() {
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);
                    DBConnection conn = new
DBConnection(props.getProperty("url"), props.getProperty("userid"),
props.getProperty("password"));
                    out.println("DB Connection initialized.<br>");
                    conn.closeConnection();
                    out.println("DB Connection closed.<br>");
                    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);
        }
```

```
web.xml
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"</pre>
xmlns="http://java.sun.com/xml/ns/javaee"
xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
http://java.sun.com/xml/ns/javaee/web-app 2 5.xsd" id="WebApp ID"
version="2.5">
     <display-name>Assisted-Practice-Project 2.11 (JDBCSetup)/display
name>
     <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>
     <servlet>
           <description></description>
<display-name>DemoJDBC</display-name>
<servlet-name>DemoJDBC</servlet-name>
<servlet-class>com.ecommerce.DemoJDBC</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>DemoJDBC</servlet-name>
<url-pattern>/init</url-pattern>
</servlet-mapping>
</web-app>
Output:
  Console
                           ₩ Servers
                                                   Snippets
                                                                            Markers
                                                                                                      JDBC Setup ×
  Initialize JDBC
  Console
                        ₩ Servers
                                              Snippets
                                                                    Markers
                                                                                            http://localhost:8080/Assisted-Practice-Project_2.11_(JDBCSetup)/init ×

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http://localhost:8080/Assisted-Practice-Project_2.11_(JDBCSetup)/init

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http://localhost:8080/Assisted-Practice-Project_2.11_(JDBCSetup)/init

http://localhost.nc.//init

http://localhost.nc.//
   DB Connection initialized.
  DB Connection closed.
```