

**Name: Kiran Bendkoli**

**Roll No: 08**

### **Assignment 5**

Implement the sample program demonstrating the use of Servlet. e.g., Create a database table ebookshop (book\_id, book\_title, book\_author, book\_price, quantity) using database like Oracle/MySQL etc. and display (use SQL select query) the table content using servlet

#### **FetchData.java**

```
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
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 FetchData
 */
@WebServlet("/FetchData")
public class FetchData extends HttpServlet {
    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()

```

```

*/

public FetchData() {

    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

    response.getWriter().append("Served at: ").append(request.getContextPath());

}

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

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

    try {

        response.setContentType("text/html");

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

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

        Statement st= con.createStatement();

        ResultSet rs=st.executeQuery("select * from ebookshop");

        PrintWriter out = response.getWriter();

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

        out.print("<h2 align=center> E-Bookshop Database</h2>");

        out.print("<table border=1 align=center>");

```

```

        out.print("<tr><th> Book ID </th>
<th>Title</th><th>Author</th><th>Price</th><th>Quantity</th></tr>");
        while(rs.next())
        {
            out.print("<tr align=center>");
            out.print("<td>");
            out.print(rs.getInt(1));
            out.print("</td>");
            out.print("<td>");
            out.print(rs.getString(2));
            out.print("</td>");
            out.print("<td>");
            out.print(rs.getString(3));
            out.print("</td>");
            out.print("<td>");
            out.print(rs.getString(4));
            out.print("</td>");
            out.print("<td>");
            out.print(rs.getString(5));
            out.print("</td>");
            out.print("</tr>");
        }
        out.println("</html></body>");
    }catch(Exception e) {
        e.printStackTrace();
    }

}

}

```

## index.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Get Data</title>
</head>
<body>

    <center>
        <form action="FetchData" method="post">
            <input type="submit" value="Get All Records">
        </center>
    </body>
</html>
```

The screenshot shows the Eclipse IDE interface with a web application running on Tomcat. The browser window displays the following table:

Book ID	Title	Author	Price	Quantity
1	CPP beginners to advanced	Surendra Sharma	500.0	3
2	Spring Framework Complete reference	Dr. K.D. Kadam	599.0	5

The console window shows the following logs:

```
Tomcat v8.5 Server at localhost (3) [Apache Tomcat/8.5.90 (java/jdk-11.0.2/bin/java.exe) (Apr 30, 2022 8:09:58 PM)]
INFO: At least one JAR was scanned for TLDs yet contained no TLDs. Enable debug logging for this logger for a complete list of JARs that were scanned but no TLDs w
Apr 30, 2022 8:10:01 PM org.apache.catalina.util.SessionIdGeneratorBase createSecureRandom
WARNING: Creation of SecureRandom instance for session ID generation using [SHA1PRNG] took [155] milliseconds.
Apr 30, 2022 8:10:02 PM org.apache.jasper.servlet.TldScanner scanJars
INFO: At least one JAR was scanned for TLDs yet contained no TLDs. Enable debug logging for this logger for a complete list of JARs that were scanned but no TLDs w
Apr 30, 2022 8:10:02 PM org.apache.coyote.AbstractProtocol start
INFO: Starting ProtocolHandler ["http-nio-8080"]
Apr 30, 2022 8:10:02 PM org.apache.catalina.startup.Catalina start
INFO: Server startup in 2502 ms
Loading class 'com.mysql.jdbc.Driver'. This is deprecated. The new driver class is 'com.mysql.cj.jdbc.Driver'. The driver is automatically registered via the SPI a
```