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Roll No. 64   Class:- TE-2

1. Index.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Ebookshop</title>
</head>
<body>
   <h2>Welcome to Ebookshop</h2>
   <p>Click below to view the books:</p>
   <a href="books">View Books</a>
</body>
</html>
```

2. Ebookshop.java

```java
package com.example;


import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import javax.servlet.annotation.WebServlet;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

@WebServlet("/EbookshopServlet")
public class EbookshopServlet extends HttpServlet {
   private static final long serialVersionUID = 1L;
   public EbookshopServlet() {}


   protected void doGet(HttpServletRequest request, HttpServletResponse response)
       throws ServletException, IOException {
     response.setContentType("text/html");
     PrintWriter out = response.getWriter();
```

```java
        String url = "jdbc:mysql://localhost:3306/Assign5";
        String user = "root";
        String password = "root@123";

        out.println("<html><head><title>Ebookshop</title></head><body>");
        out.println("<h2>Ebookshop Books</h2>");
        out.println("<table
border='1'><tr><th>ID</th><th>Title</th><th>Author</th><th>Price</th><th>Qty</
th></tr>");

        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection conn = DriverManager.getConnection(url, user, password);
            Statement stmt = conn.createStatement();
            String selectSql = "SELECT * FROM ebookshop";
            ResultSet rs = stmt.executeQuery(selectSql);

            while (rs.next()) {
                out.println("<tr><td>" + rs.getInt("book_id") + "</td>");
                out.println("<td>" + rs.getString("book_title") + "</td>");
                out.println("<td>" + rs.getString("book_author") + "</td>");
                out.println("<td>" + rs.getDouble("book_price") + "</td>");
                out.println("<td>" + rs.getInt("quantity") + "</td></tr>");
            }

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

            rs.close();
            stmt.close();
            conn.close();
        } catch (ClassNotFoundException e) {
            out.println("<p>Error: MySQL JDBC Driver not found!</p>");
            e.printStackTrace();
        } catch (SQLException e) {
            out.println("<p>Error: Database connection failed!</p>");
            e.printStackTrace();
        }
    }
}
```

3. Web.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<web-app version="3.1" xmlns="http://xmlns.jcp.org/xml/ns/javaee
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd">
<servlet>
    <servlet-name>servlet</servlet-name>
    <servlet-class>com.example.EbookshopServlet</servlet-class>
</servlet>
<servlet-mapping>
    <servlet-name>servlet</servlet-name>
    <url-pattern>/books</url-pattern>
</servlet-mapping>
<session-config>
    <session-timeout>
        30
    </session-timeout>
</session-config>
</web-app>
```
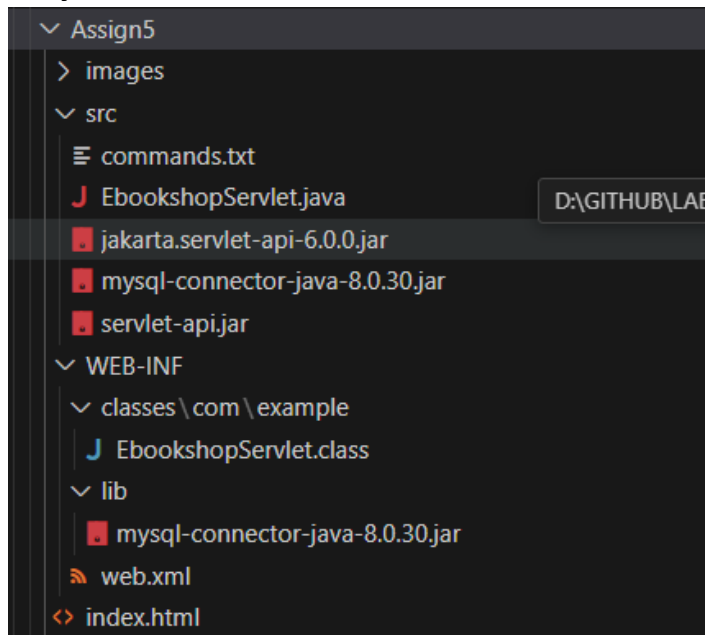
4. MySQL Table

```
mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| Assign5            |
| information_schema |
| mysql              |
| performance_schema |
| sys                |
+--------------------+
5 rows in set (0.45 sec)

mysql> use Assign5;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> select * from ebookshop;
+---------+----------------------+---------------------+------------+----------+
| book_id | book_title           | book_author         | book_price | quantity |
+---------+----------------------+---------------------+------------+----------+
|       1 | The Catcher in the Rye | J.D. Salinger     |      10.99 |        5 |
|       2 | To Kill a Mockingbird | Harper Lee         |      12.50 |        8 |
|       3 | 1984                 | George Orwell       |      15.75 |       10 |
|       4 | Pride and Prejudice  | Jane Austen         |       9.99 |        6 |
|       5 | The Great Gatsby     | F. Scott Fitzgerald |      11.25 |        4 |
+---------+----------------------+---------------------+------------+----------+
5 rows in set (0.02 sec)
```
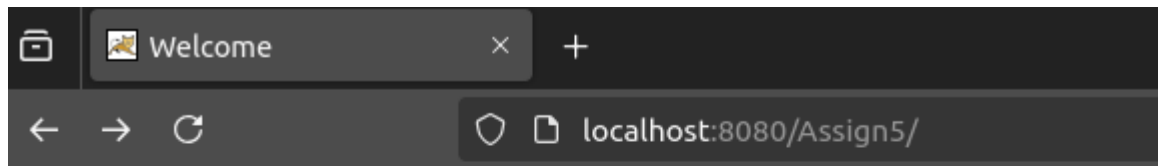
5. Directory Structure

```
∨ Assign5
  > images
  ∨ src
    ≡ commands.txt
    J EbookshopServlet.java          D:\GITHUB\LAB
    ▪ jakarta.servlet-api-6.0.0.jar
    ▪ mysql-connector-java-8.0.30.jar
    ▪ servlet-api.jar
  ∨ WEB-INF
    ∨ classes\com\example
      J EbookshopServlet.class
    ∨ lib
      ▪ mysql-connector-java-8.0.30.jar
    ⋙ web.xml
  <> index.html
```

6. Output

Welcome tab — localhost:8080/Assign5/

Welcome to Ebookshop

Click below to view the books:

View Books

Ebookshop tab — localhost:8080/Assign5/books
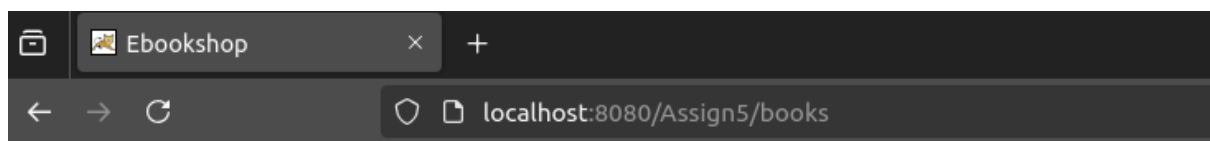
Ebookshop Books

ID	Title	Author	Price	Qty
1	The Catcher in the Rye	J.D. Salinger	10.99	5
2	To Kill a Mockingbird	Harper Lee	12.5	8
3	1984	George Orwell	15.75	10
4	Pride and Prejudice	Jane Austen	9.99	6
5	The Great Gatsby	F. Scott Fitzgerald	11.25	4