

WEB TECHNOLOGY LABORATORY

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.

CODE

ebookclass.java

```
package ebookpkg;

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

    /**
     * @see HttpServlet#HttpServlet()
     */
    public ebookclass() {
        super();
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request,
    HttpServletResponse response)
     */
    protected void doGet(HttpServletRequest request, HttpServletResponse
    response) throws ServletException, IOException {

        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        out.println("<html>");
    }
}
```

```

        out.println("<head><title>Query
Response</title></head>");
        out.println("<body>");
        try
        {
            String dbDriver = "com.mysql.jdbc.Driver";
            String dbURL = "jdbc:mysql://localhost:3306/";
            String dbName = "books";
            String dbUsername = "root";
            String dbPassword = "Sudarshan";
            //load JDBC driver
            Class.forName(dbDriver);

            // Step 1: Allocate a database 'Connection'
            object
            Connection conn =
            DriverManager.getConnection(dbURL + dbName, dbUsername, dbPassword);

            // Step 2: Allocate a 'Statement' object in the
            Connection
            Statement stmt = conn.createStatement();

            // Step 3: create and Execute a SQL SELECT query
            String sqlStr = "select * from ebookshop";
            ResultSet rset = stmt.executeQuery(sqlStr); //
            Send the query to the server
            // Step 4: Process the query result set
            int count = 0;
            out.println("<table border='1' style='border-
collapse:collapse; border-radius: 10px;border: 1px solid white;background-
color: #96D4D4'><tr><td> Book ID </td> <td>Book Author </td> <td>Book
Name</td> <td>Book Price</td> <td>Quantity</td> </tr>");
            while(rset.next()) {
                out.println("<tr><td>" +
                rset.getString("book_id")
                + "</td><td>" + rset.getString("book_name")
                + "</td><td>" + rset.getString("book_author")
                + "</td><td>Rs. " +
                rset.getDouble("book_price")
                + "</td><td>" + rset.getInt("quantity") +
                "</td></tr>");
                count++;
            }
            rset.close();
            stmt.close();
            conn.close();
            out.println("<p>==== " + count + " records found
====</p>");
        }
        catch(Exception ex)
        {
            out.println("<p>Error: " + ex.getMessage() +
            "</p>");
            out.println("<p>Check Tomcat console for
            details.</p>");
            ex.printStackTrace();

```

```

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

/**
 * @see HttpServlet#doPost(HttpServletRequest request,
HttpServletResponse response)
 */
protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
    doGet(request, response);
}
}

```

OUTPUT / SCREENSHOTS

```

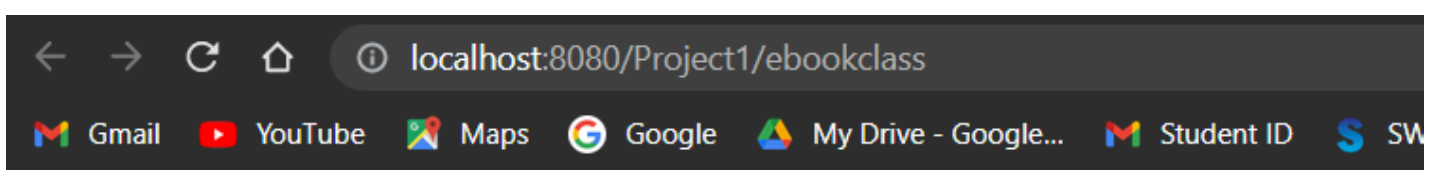
mysql> use BOOKS;
Database changed
mysql> select * from EBOOKSHOP;

```

book_id	book_name	book_author	book_price	quantity
ID01	INCREDIBLE PUNE	SUDARSHAN VETAL	999	50
ID02	STRINGS ATTACHED	SUMIT SHARMA	949	60
ID03	INTELLIGENT ACTS	HARDIK MAIND	899	75
ID04	IDEAL SUCCESS	ADITYA MANCHARE	900	40
ID05	BEYOND SOCIAL MEDIA	AVISHKAR PAGARE	849	50
ID06	LIVE EACH MOMENT	MANDAR VEER	899	40

6 rows in set (0.00 sec)

```
mysql> █
```



==== 6 records found =====

Book ID	Book Author	Book Name	Book Price	Quantity
ID01	INCREDIBLE PUNE	SUDARSHAN VETAL	Rs. 999.0	50
ID02	STRINGS ATTACHED	SUMIT SHARMA	Rs. 949.0	60
ID03	INTELLIGENT ACTS	HARDIK MAIND	Rs. 899.0	75
ID04	IDEAL SUCCESS	ADITYA MANCHARE	Rs. 900.0	40
ID05	BEYOND SOCIAL MEDIA	AVISHKAR PAGARE	Rs. 849.0	50
ID06	LIVE EACH MOMENT	MANDAR VEER	Rs. 899.0	40