

WEB LAB Internal-2 Preperation (Just Reference)

Week-6 :

App.java File :

```
import java.sql.*;

public class App {

    public static void main(String[] args) throws Exception {
        Connection connect = null;
        Class.forName("com.mysql.cj.jdbc.Driver");
        connect = DriverManager.getConnection("jdbc:mysql://localhost:3306", "root", "root");
        Statement statement = connect.createStatement();
        // statement.execute("create database cse");
        statement.execute("use cse");

        // // creating...
        // statement.execute("create table student (s_id integer, s_name varchar(20), s_sec varchar(5))");
        // statement.execute("insert into student values(01,'Satyavanth','3')");
        // statement.execute("insert into student values(02,'XYZ','3')");
        // statement.execute("insert into student values(03,'ABC', '3')");
        // statement.execute("insert into student values(04,'Randon guy', '3')");

        // update...
        // String sql1 = "update student set s_name='Satyavanth' where s_id=2";
        // statement.executeUpdate(sql1);

        // delete...
        // String sql="delete from student where s_id=2";
        // statement.executeUpdate(sql);

        ResultSet resultSet = statement.executeQuery("select * from student");
        while(resultSet.next()){
            System.out.println("Student ID: "+resultSet.getString(1));
            System.out.println("Student Name: "+resultSet.getString(2));
            System.out.println("Student Section: "+resultSet.getString(3));
            System.out.println();
        }
        resultSet.close();
        statement.close();
        connect.close();
    }
}
```

Week-7 and week8 : (lengthy programs but similar codes and easy):

index.html File :

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Start Page</title>
</head>
<body>
  <h1>Welcome to Servlets</h1>
  <!-- <form action="servlet" method="POST">
    <label for="s_id">Username:</label>
    <input type="text" id="s_id" name="s_id" required><br><br>
    <label for="s_name">Password:</label>
    <input type="password" id="s_name" name="s_name" required><br><br>
    <input type="submit" value="Login"><br><br>
  </form> -->

  <a href="login.html">Login</a><br><br>
  <a href="register.html">Register</a> <br><br>
  <a href="changePassword.html">Change Password</a><br><br>
</body>
</html>
```

login.html File :

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Login Page</title>
</head>
<body>
  <h1>Login</h1>
  <form action="servlet" method="POST">
    <label for="s_id">Username:</label>
    <input type="text" id="s_id" name="s_id" required><br><br>
    <label for="s_name">Password:</label>
    <input type="password" id="s_name" name="s_name" required><br><br>
    <input type="submit" value="Login"><br><br>
  </form>
  <a href="register.html">Register</a><br><br>
  <a href="changePassword.html">Change Password</a>
</body>
</html>
```

register.html File:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Registration Page</title>
</head>
<body>
  <h1>Register</h1>
  <form action="servlet1" method="POST">
    <label for="s_id">Username:</label>
    <input type="text" id="s_id" name="s_id" required><br><br>
    <label for="s_name">Password:</label>
    <input type="password" id="s_name" name="s_name" required><br><br>
    <label for="s_sec">Section:</label>
    <input type="text" id="s_sec" name="s_sec" required><br><br>
    <input type="submit" value="Register"><br><br>
  </form>
  <a href="login.html">Login</a> <br><br>
  <a href="changePassword.html">Change Password</a>
</body>
</html>
```

changePassword.html File :

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Password Change</title>
</head>
<body>
  <h1>Change Password</h1>
  <form action="servlet2" method="POST">
    <label for="s_id">Username:</label>
    <input type="text" id="s_id" name="s_id" required><br><br>
    <label for="s_name">Old Password:</label>
    <input type="password" id="s_name" name="s_name" required><br><br>
    <label for="s_sec">New Password:</label>
    <input type="password" id="new_pass" name="new_pass" required><br><br>
    <input type="submit" value="Change Password"><br><br>
  </form>
  <a href="login.html">Login</a> <br><br>
  <a href="register.html">Register</a>
</body>
</html>
```

Servlet.java File :

```
package com.satyavanth;

import java.io.IOException;
import java.io.PrintWriter;
// import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.sql.*;

public class Servlet extends HttpServlet {
    public void doPost(HttpServletRequest request, HttpServletResponse response) throws
    IOException {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        int username = Integer.parseInt(request.getParameter("s_id"));
        String password = request.getParameter("s_name");
        try {
            Connection con = null;
            Class.forName("com.mysql.cj.jdbc.Driver");
            con = DriverManager.getConnection("jdbc:mysql://localhost:3306/cse", "root", "root");
            Statement stmt = con.createStatement();
            String query = "select * from student where s_id='"+username+"' and
s_name='"+password+"'";
            ResultSet rs = stmt.executeQuery(query);
            if (rs.next()) {
                out.println("Welcome " + username);

                // out.println("<html><body>");
                // out.println("<br>");
                // out.println("<a href='changePassword.html'>Change Password</a>");
                // out.println("</body></html>");
            } else {
                out.println("Invalid username or password");
            }
        } catch (Exception e) {
            out.println("Error"+e);
        }
        out.close();
    }
}
```

servlet1.java File :

```
package com.satyavanth;

import java.io.IOException;
import java.io.PrintWriter;
// import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.sql.*;

public class servlet1 extends HttpServlet {
    public void doPost(HttpServletRequest request, HttpServletResponse response) throws
    IOException {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        int username = Integer.parseInt(request.getParameter("s_id"));
        String password = request.getParameter("s_name");
        String section = request.getParameter("s_sec");
        try {
            Connection con = null;
            Class.forName("com.mysql.cj.jdbc.Driver");
            con = DriverManager.getConnection("jdbc:mysql://localhost:3306/cse", "root", "root");
            String query = "insert into student values("+username+", '"+password+"', '"+section+"'";
            PreparedStatement pstmt = con.prepareStatement(query);
            int rowInserted = pstmt.executeUpdate();
            if (rowInserted > 0) {
                out.println("Registration successfull");
            } else {
                out.println("Registration not successfull");
            }
        } catch (Exception e) {
            out.println("Error"+e);
        }
        out.close();
    }
}
```

Servlet2.java File :

```
package com.satyavanth;

import java.io.IOException;
import java.io.PrintWriter;
// import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.sql.*;

public class Servlet2 extends HttpServlet {
    public void doPost(HttpServletRequest request, HttpServletResponse response) throws
    IOException {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        int username = Integer.parseInt(request.getParameter("s_id"));
        String password = request.getParameter("s_name");
        String newPassword = request.getParameter("new_pass");
        try {
            Connection con = null;
            Class.forName("com.mysql.cj.jdbc.Driver");
            con = DriverManager.getConnection("jdbc:mysql://localhost:3306/cse", "root", "root");
            Statement stmt = con.createStatement();
            String query = "update student set s_name='"+newPassword+"' where s_id='"+username+"
and s_name='"+password+"'";
            int rowAffected = stmt.executeUpdate(query);
            // ResultSet rs = stmt.executeQuery(query);
            if (rowAffected > 0) {
                out.println("Password changed successfully");
            } else {
                out.println("Invalid username or old password");
            }

        } catch (Exception e) {
            out.println("Error"+e);
        }
        out.close();
    }
}
```

index.html (Output) :

Welcome to Servlets

[Login](#)

[Register](#)

[Change Password](#)

login.html (Output) :

Login

Username:

Password:

[Register](#)

[Change Password](#)

register.html (Output):

Register

Username:

Password:

Section:

[Login](#)

[Change Password](#)

changePassword.html (output):

Change Password

Username:

Old Password:

New Password:

[Login](#)

[Register](#)

Week 9 and 10 for Internal :(Addition of 2 numbers using JSP) :

index.jsp File:

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Addition</title>
</head>
<body>
    <h2>Addition of Two Numbers</h2>
    <form action="addition.jsp" method="post">
        Enter first number: <input type="text" name="num1"><br>
        Enter second number: <input type="text" name="num2"><br>
        <input type="submit" value="Add">
    </form>
    <%
        if (request.getMethod().equals("POST")) {
            try {
                int num1 = Integer.parseInt(request.getParameter("num1"));
                int num2 = Integer.parseInt(request.getParameter("num2"));
                int sum = num1 + num2;
            %>
                <p>Result: <%= sum %></p>
            <%
            } catch (NumberFormatException e) {
            %>
                <p>Please enter valid numbers.</p>
            <%
            }
        }
    %>
</body>
</html>
```

addition.jsp File :

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Addition Result</title>
</head>
<body>
    <h2>Addition Result</h2>
    <%
        if (request.getMethod().equals("POST")) {
            try {
                int num1 = Integer.parseInt(request.getParameter("num1"));
                int num2 = Integer.parseInt(request.getParameter("num2"));
                int sum = num1 + num2;
            %>
                <p>Result: <%= sum %></p>
            <%
                } catch (NumberFormatException e) {
            %>
                <p>Please enter valid numbers.</p>
            <%
                }
            } else {
            %>
                <p>Please submit the form to see the result.</p>
            <%
                }
            %>
            <a href="index.jsp">Back to Input Page</a>
        }
    %>
</body>
</html>
```

index.jsp (Output):

Addition of Two Numbers

Enter first number:

Enter second number:

addition.jsp (Ouyput) :

Addition Result

Result: 30

[Back to Input Page](#)