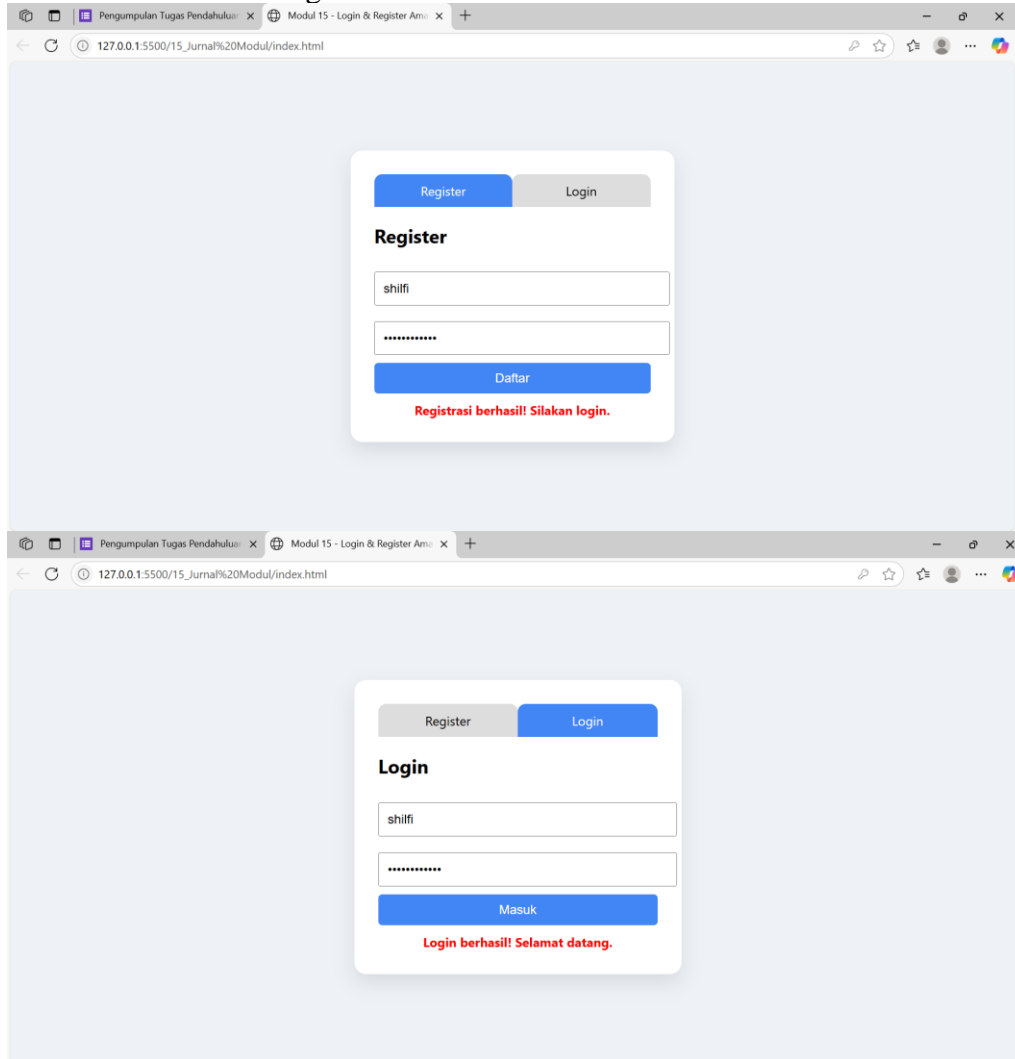


TP13_2311104002_Shilfi Habibah_SE0701

I. Link github

https://github.com/shilfihabibah/KPL_Shilfi-Habibah_2311104002_SE07-01/tree/master/15_Jurnal%20Modul

II. Screenshot hasil running



III. Codingan

Index.html

```
15 Jurnal Modul > <> index.html > html > body > div.container
1  <!DOCTYPE html>
2  <html lang="id">
3  <head>
4    <meta charset="UTF-8">
5    <title>Modul 15 - Login & Register Aman</title>
6    <link rel="stylesheet" href="style.css">
7  </head>
8  <body>
9
10   <div class="container">
11     <div class="tabs">
12       <div class="tab active" onclick="showTab('register')">Register</div>
13       <div class="tab" onclick="showTab('login')">Login</div>
14     </div>
15
16     <!-- Form Register -->
17     <div class="form active" id="register">
18       <h2>Register</h2>
19       <input type="text" id="regUsername" placeholder="Username">
20       <input type="password" id="regPassword" placeholder="Password">
21       <button onclick="register()">Daftar</button>
22     </div>
23
24     <!-- Form Login -->
25     <div class="form" id="login">
26       <h2>Login</h2>
27       <input type="text" id="loginUsername" placeholder="Username">
28       <input type="password" id="loginPassword" placeholder="Password">
29       <button onclick="login()">Masuk</button>
30
31     </div>
32
33     <div id="pesan"></div>
34   </div>
35
36   <script src="script.js"></script>
37 </body>
</html>
```

Membuat antarmuka web sederhana untuk login dan registrasi:

- Dua tab: Register dan Login.
- Masing-masing memiliki form input username dan password.
- Ada tombol untuk mengirim data (Daftar dan Masuk).
- Div #pesan untuk menampilkan notifikasi.

script.js

```
15_Jurnal Modul > JS script.js > hashPassword

1 function showTab(tabName) {
2   const tabs = document.querySelectorAll('.tab');
3   const forms = document.querySelectorAll('.form');
4
5   tabs.forEach(tab => tab.classList.remove('active'));
6   forms.forEach(form => form.classList.remove('active'));
7
8   document.querySelector(`.tab[onclick="showTab('${tabName}')"]`).classList.add('active');
9   document.getElementById(tabName).classList.add('active');
10  clearPesan();
11 }
12
13 function tampilkanPesan(teks) {
14   document.getElementById("pesan").innerText = teks;
15 }
16
17 function clearPesan() {
18   document.getElementById("pesan").innerText = "";
19 }
20
21 function validasiInput(username, password) {
22   const usernameRegex = /^[A-Za-z]+$/;
23   const passwordRegex = /^(?=.*\d)[A-Za-z\d]{8,20}$/;
24
25   if (!usernameRegex.test(username)) {
26     tampilkanPesan("Username hanya boleh huruf alfabet (A-Z, a-z).");
27     return false;
28   }
29
30   if (!passwordRegex.test(password)) {
31     tampilkanPesan("Password harus 8-20 karakter dan mengandung angka.");
32     return false;
33   }
34
35   return true;
36 }
37
38 function register() {
39   const username = document.getElementById("regUsername").value.trim();
40   const password = document.getElementById("regPassword").value.trim();
41
42   if (!validasiInput(username, password)) return;
43
44   const data = { username, password: hashPassword(password) };
45   localStorage.setItem("userData", JSON.stringify(data));
46
47   tampilkanPesan("Registrasi berhasil! Silakan login.");
48 }
49
50 function login() {
51   const username = document.getElementById("loginUsername").value.trim();
52   const password = document.getElementById("loginPassword").value.trim();
53
54   if (!validasiInput(username, password)) return;
55
56   const storedData = JSON.parse(localStorage.getItem("userData"));
57
58   if (!storedData) {
59     tampilkanPesan("Belum ada akun terdaftar.");
60     return;
61   }
62
63   if (username === storedData.username && hashPassword(password) === storedData.password) {
64     tampilkanPesan("Login berhasil! Selamat datang.");
65   } else {
66     tampilkanPesan("Username atau password salah.");
67   }
68 }
69
70 function hashPassword(password) {
71   // Simulasi hashing sederhana (bukan untuk produksi)
72   let hash = 0;
73   for (let i = 0; i < password.length; i++) {
74     hash = (hash << 5) - hash + password.charCodeAt(i);
75     hash |= 0;
76   }
77   return hash.toString();
78 }
```

Mengatur logika fungsional:

- a) showTab(tabName): Menampilkan form register/login sesuai tab yang diklik.
- b) validasiInput(): Validasi input username (huruf saja) dan password (8–20 karakter, ada angka).
- c) register():
 - Validasi input.
 - Simpan data user ke localStorage (disimpan di browser).
 - Password disimpan dalam bentuk *hash* sederhana.
- d) login():
 - Validasi input.
 - Ambil data dari localStorage dan cocokkan.
 - Tampilkan pesan berhasil/gagal login.
- e) hashPassword(): Fungsi hashing sederhana untuk menyamarkan password (bukan untuk keamanan produksi).

style.css

```
1  body {
2    font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
3    background: #eef2f7;
4    display: flex;
5    justify-content: center;
6    align-items: center;
7    height: 100vh;
8    margin: 0;
9  }
10
11  .container {
12    background: white;
13    padding: 30px;
14    border-radius: 15px;
15    box-shadow: 0 10px 25px rgba(0,0,0,0.1);
16    width: 350px;
17  }
18
19  .tabs {
20    display: flex;
21    margin-bottom: 20px;
22  }
23
24  .tab {
25    flex: 1;
26    padding: 10px;
27    text-align: center;
28    cursor: pointer;
29    background: #ddd;
```

```

30     border-radius: 10px 10px 0 0;
31 }
32
33 .tab.active {
34     background: #4285f4;
35     color: white;
36 }
37
38 .form {
39     display: none;
40 }
41
42 .form.active {
43     display: block;
44 }
45
46 input {
47     width: 100%;
48     padding: 10px;
49     margin: 10px 0;
50     font-size: 16px;
51 }
52
53 button {
54     width: 100%;
55     padding: 10px;
56     background-color: #4285f4;
57     color: white;
58     border: none;
59     cursor: pointer;
60     font-size: 16px;
61     border-radius: 5px;
62 }
63
64 #pesan {
65     color: red;
66     font-weight: bold;
67     margin-top: 10px;
68     text-align: center;
69 }

```

Mengatur tampilan UI:

- a) Pusatkan form di tengah halaman.
- b) Gaya tab dan form agar menarik dan responsif.
- c) Warna dan layout dibuat bersih dan user-friendly.

