

**Laporan Praktikum**  
**Mata Kuliah Pemrograman WEB**



**Pertemuan 6. Tugas 1**

Dosen Pengampu :

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Disusun Oleh :

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**(2305968)**

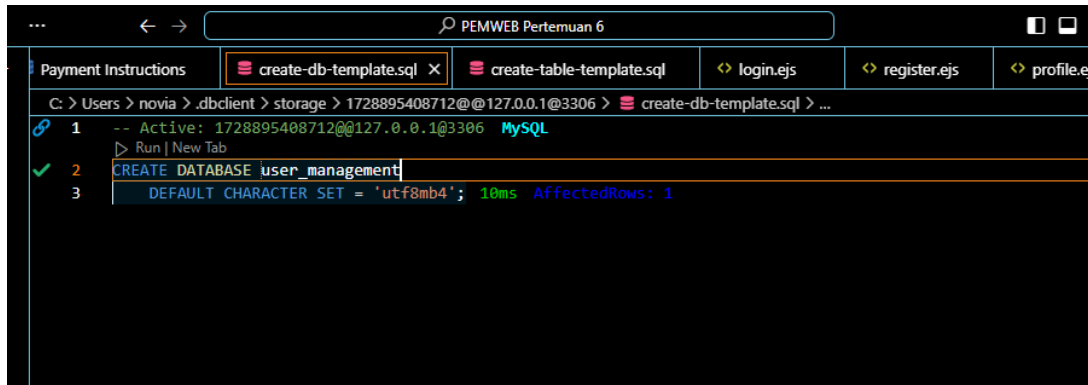
**PROGRAM STUDI SISTEM INFORMASI KELAUTAN**  
**UNIVERSITAS PENDIDIKAN INDONESIA**

**2024**

## SESSION

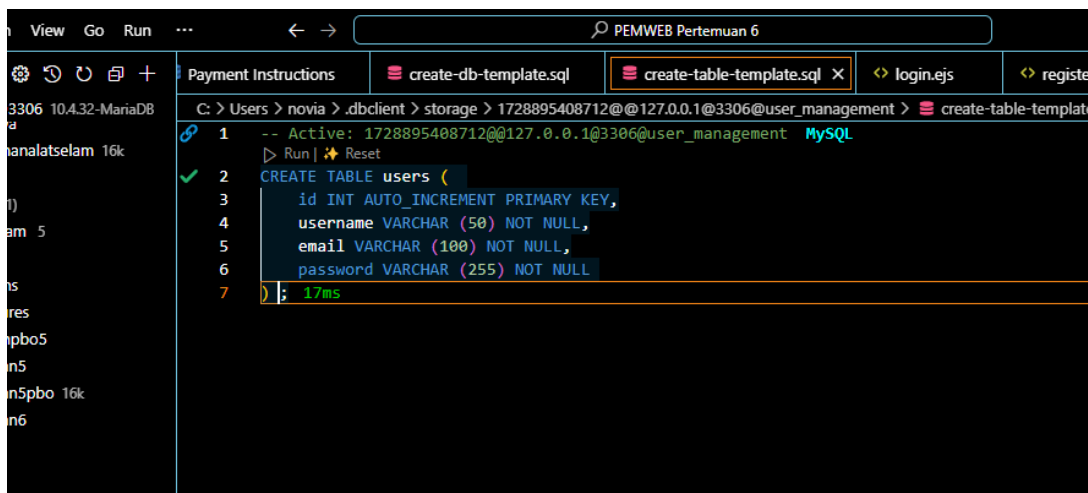
Session adalah mekanisme yang digunakan dalam aplikasi web untuk menyimpan informasi pengguna secara sementara saat mereka berinteraksi dengan aplikasi tersebut. Dalam konteks Node.js, session digunakan untuk melacak dan mengingat status pengguna di antara permintaan HTTP (request) yang berbeda.

### 1. Membuat database dengan nama user\_management



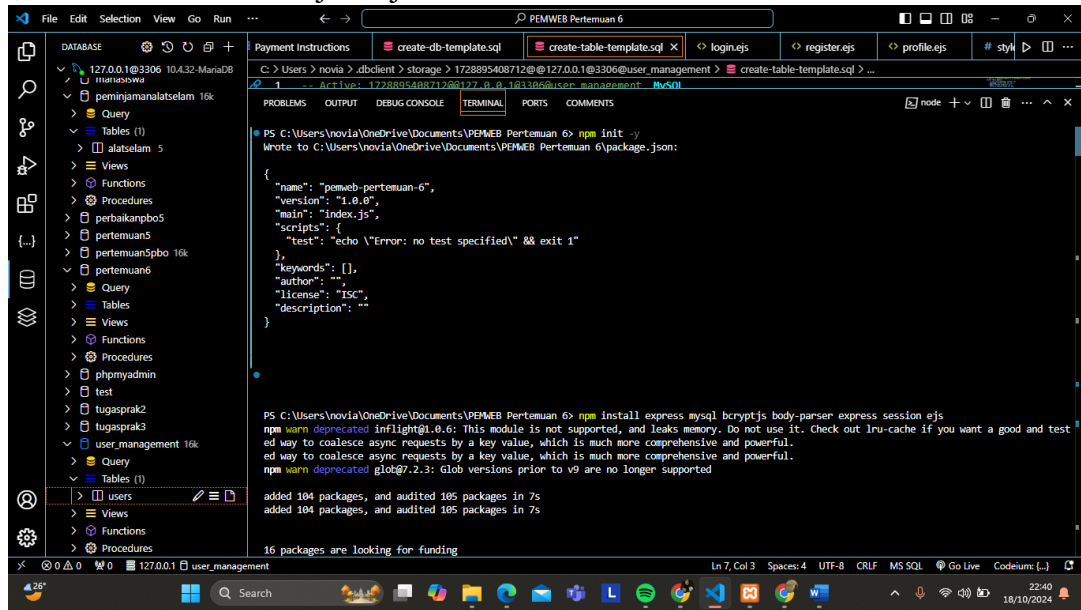
```
... < --> PEMWEB Pertemuan 6
Payment Instructions create-db-template.sql X create-table-template.sql < login.ejs < register.ejs < profile.ejs
C: > Users > novia > .dbclient > storage > 1728895408712@@127.0.0.1@3306 > create-db-template.sql > ...
1 -- Active: 1728895408712@@127.0.0.1@3306 MySQL
  Run | New Tab
2 CREATE DATABASE user_management
3 DEFAULT CHARACTER SET = 'utf8mb4'; 10ms AffectedRows: 1
```

### 2. Membuat table users dengan struktur berikut



```
View Go Run ... < --> PEMWEB Pertemuan 6
Payment Instructions create-db-template.sql create-table-template.sql X login.ejs register.ejs
C: > Users > novia > .dbclient > storage > 1728895408712@@127.0.0.1@3306@user_management > create-table-template
1 -- Active: 1728895408712@@127.0.0.1@3306@user_management MySQL
  Run | Reset
2 CREATE TABLE users (
3   id INT AUTO_INCREMENT PRIMARY KEY,
4   username VARCHAR (50) NOT NULL,
5   email VARCHAR (100) NOT NULL,
6   password VARCHAR (255) NOT NULL
7 ); 17ms
```

### 3. Inisialisasi Node.js Project



```
PS C:\Users\novia\OneDrive\Documents\PEMWEB Pertemuan 6> npm init -y
Wrote to C:\Users\novia\OneDrive\Documents\PEMWEB Pertemuan 6\package.json:

{
  "name": "pemweb-pertemuan-6",
  "version": "1.0.0",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [],
  "author": "",
  "license": "ISC",
  "description": ""
}

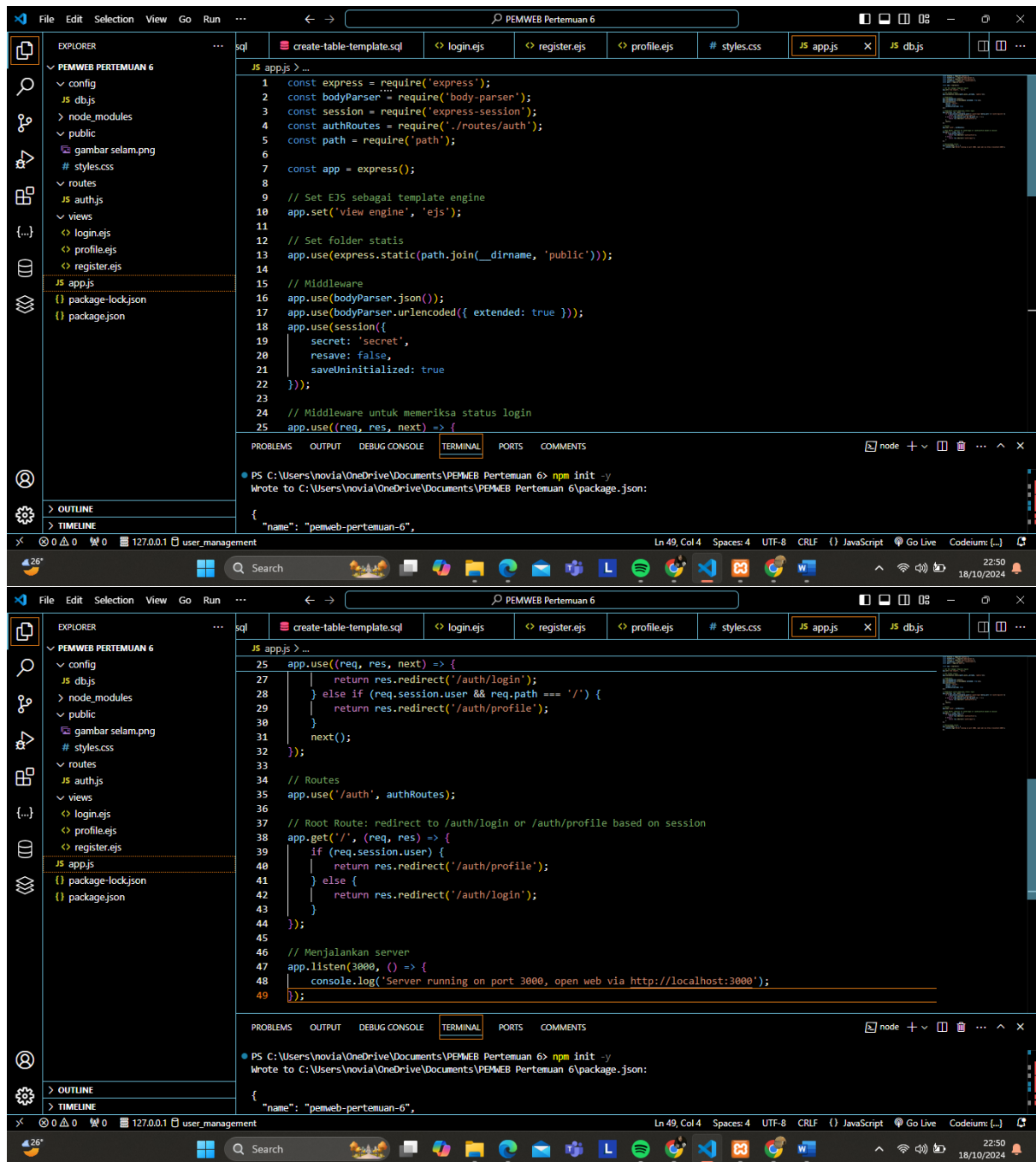
PS C:\Users\novia\OneDrive\Documents\PEMWEB Pertemuan 6> npm install express mysql bcryptjs body-parser express-session ejs
npm warn deprecated inflight@1.0.6: This module is not supported, and leaks memory. Do not use it. Check out lru-cache if you want a good and test
ed way to coalesce async requests by a key value, which is much more comprehensive and powerful.
npm warn deprecated glob@7.2.3: Glob versions prior to v9 are no longer supported
added 104 packages, and audited 105 packages in 7s
added 104 packages, and audited 105 packages in 7s
16 packages are looking for funding
```

### 4. Buat file db.js untuk mengatur koneksi ke database



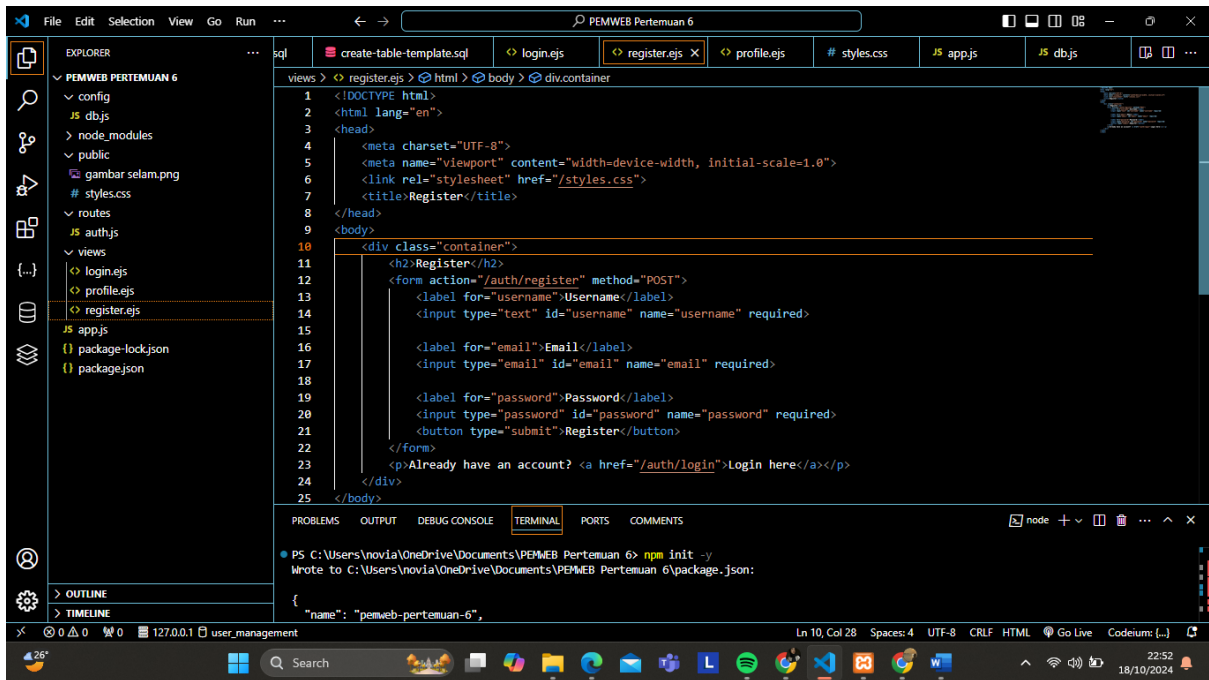
```
config > JS db.js > ...
1 const mysql = require('mysql');
2
3 const db = mysql.createConnection({
4   host: 'localhost',
5   user: 'root',
6   password: '',
7   database: 'user_management'
8 });
9
10 db.connect((err) => {
11   if (err) throw err;
12   console.log('Database connected...');
13 });
14
15 module.exports = db;
16
```

### 5. Buat file app.js untuk menginisialisasi server Express dan mengatur middleware



## 6. Membuat tampilan views

### - Register



The screenshot shows the Visual Studio Code editor with the file explorer on the left displaying the project structure for 'PEMWEB PERTEMUAN 6'. The main editor area shows the 'register.ejs' file, which is a template for an HTML registration form. The form includes fields for username, email, and password, each with a label and a required attribute. A 'Register' button is at the bottom of the form. Below the form, there is a link to the login page. The terminal at the bottom shows the command 'npm init -y' being executed, which has created a 'package.json' file.

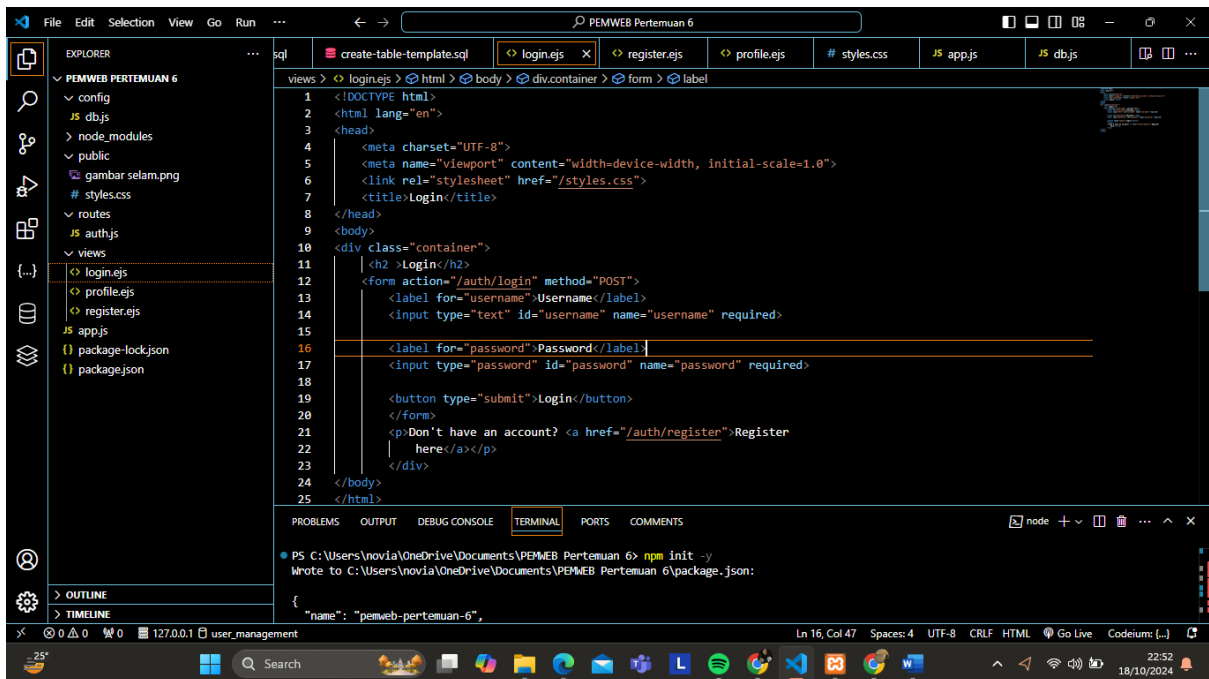
```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <link rel="stylesheet" href="/styles.css">
7   <title>Register</title>
8 </head>
9 <body>
10  <div class="container">
11    <h2>Register</h2>
12    <form action="/auth/register" method="POST">
13      <label for="username">Username</label>
14      <input type="text" id="username" name="username" required>
15
16      <label for="email">Email</label>
17      <input type="email" id="email" name="email" required>
18
19      <label for="password">Password</label>
20      <input type="password" id="password" name="password" required>
21      <button type="submit">Register</button>
22    </form>
23    <p>Already have an account? <a href="/auth/login">Login here</a></p>
24  </div>
25 </body>
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS

PS C:\Users\novia\OneDrive\Documents\PEMWEB Pertemuan 6> npm init -y  
Wrote to C:\Users\novia\OneDrive\Documents\PEMWEB Pertemuan 6\package.json:

```
{
  "name": "pemweb-pertemuan-6",
```

### - Login



The screenshot shows the Visual Studio Code editor with the file explorer on the left displaying the project structure for 'PEMWEB PERTEMUAN 6'. The main editor area shows the 'login.ejs' file, which is a template for an HTML login form. The form includes fields for username and password, each with a label and a required attribute. A 'Login' button is at the bottom of the form. Below the form, there is a link to the register page. The terminal at the bottom shows the command 'npm init -y' being executed, which has created a 'package.json' file.

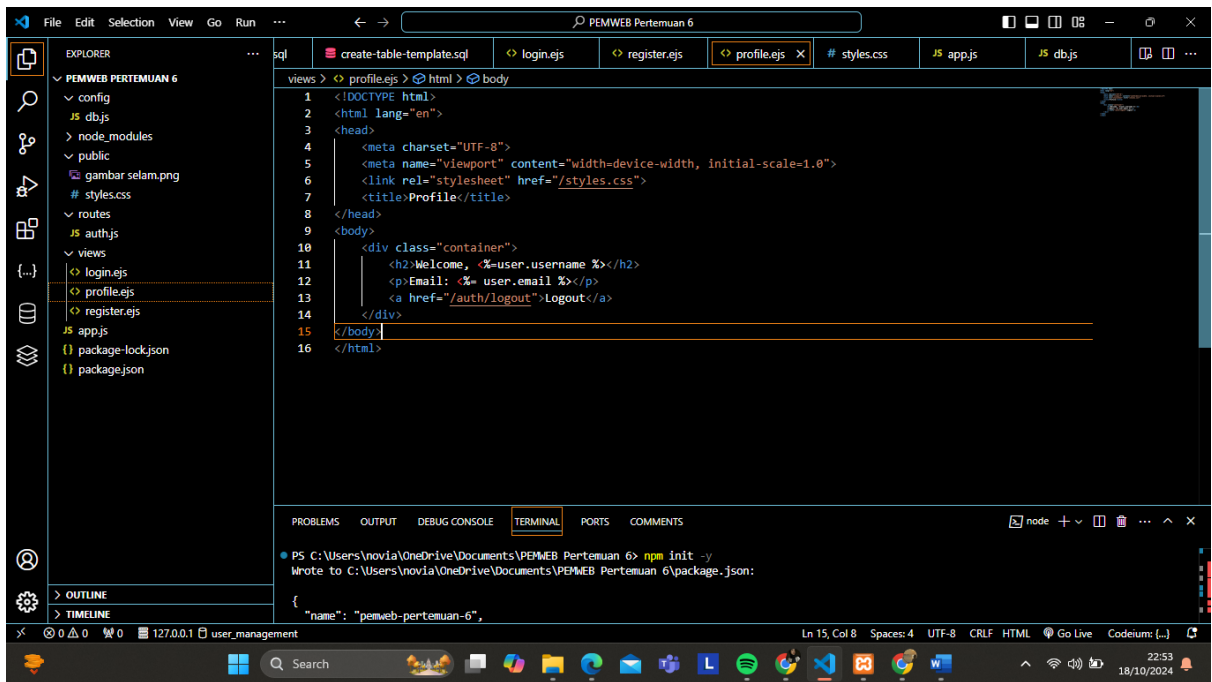
```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <link rel="stylesheet" href="/styles.css">
7   <title>Login</title>
8 </head>
9 <body>
10  <div class="container">
11    <h2>Login</h2>
12    <form action="/auth/login" method="POST">
13      <label for="username">Username</label>
14      <input type="text" id="username" name="username" required>
15
16      <label for="password">Password</label>
17      <input type="password" id="password" name="password" required>
18
19      <button type="submit">Login</button>
20    </form>
21    <p>Don't have an account? <a href="/auth/register">Register
22      here</a></p>
23  </div>
24 </body>
25 </html>
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS

PS C:\Users\novia\OneDrive\Documents\PEMWEB Pertemuan 6> npm init -y  
Wrote to C:\Users\novia\OneDrive\Documents\PEMWEB Pertemuan 6\package.json:

```
{
  "name": "pemweb-pertemuan-6",
```

### - Profile



7. Buat file `auth.js` di dalam folder `routes` untuk mengelola autentikasi pengguna



```
... PEMWEB Pertemuan 6
login.ejs register.ejs profile.ejs # styles.css JS app.js JS db.js

routes > JS authjs > ...
24 router.get('/login', (req, res) => {
25   res.render('login');
26 });
27
28 // Proses login user
29 router.post('/login', (req, res) => {
30   const { username, password } = req.body;
31
32   const query = "SELECT * FROM users WHERE username = ?";
33   db.query(query, [username], (err, result) => {
34     if (err) throw err;
35     if (result.length > 0) {
36       const user = result[0];
37
38       if (bcrypt.compareSync(password, user.password)) {
39         req.session.user = user;
40         res.redirect('/auth/profile');
41       } else {
42         res.send('Incorrect password');
43       }
44     } else {
45       res.send('User not found');
46     }
47   });
48 });
49
50 // Render halaman profil user
51 router.get('/profile', (req, res) => {
52   if (req.session.user) {
53     res.render('profile', { user: req.session.user });
54   } else {
55     res.redirect('/auth/login');
56   }
57 });
58
59 // Proses logout
60 router.get('/logout', (req, res) => {
61   req.session.destroy();
62   res.redirect('/auth/login');
63 });
64
65 module.exports = router;
66
```

## 8. Membuat CSS

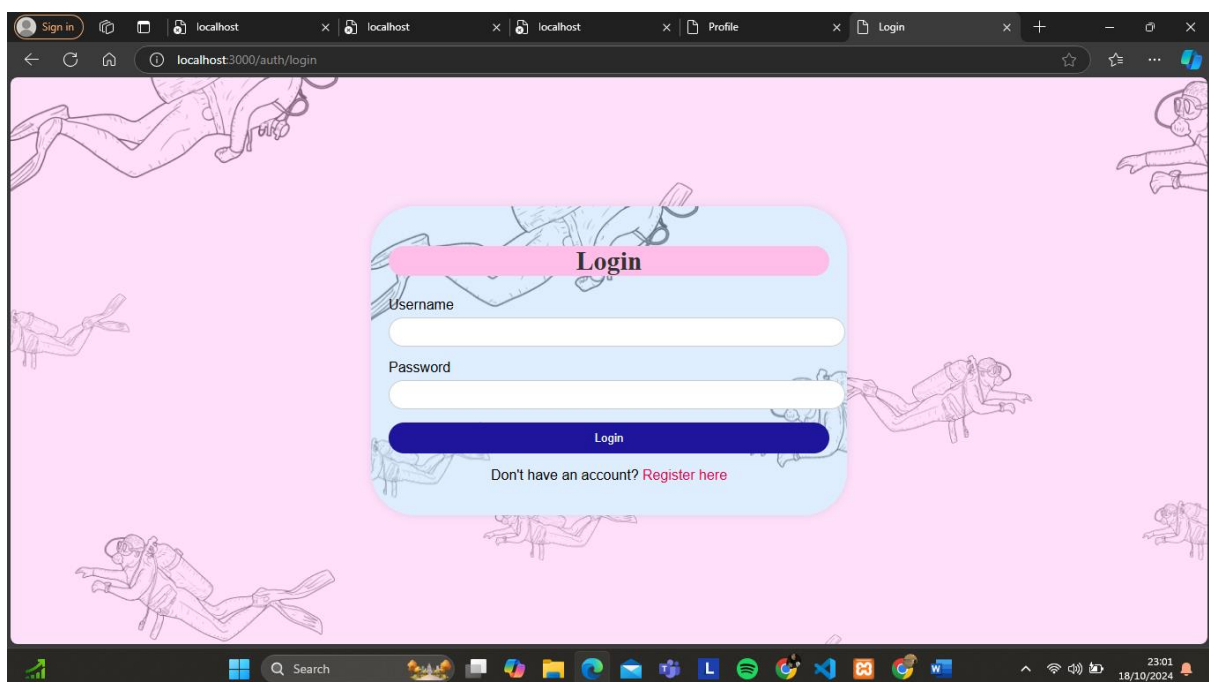
```
Run ... PEMWEB Pertemuan 6
login.ejs register.ejs profile.ejs # styles.css X JS app.js JS db.js

public > # styles.css > .container
1 body {
2   font-family: Arial, sans-serif;
3   background-image: url(gambar\selam.png);
4   background-color: #ffcf17;
5   display: flex;
6   justify-content: center;
7   align-items: center;
8   height: 100vh;
9   margin: 0;
10 }
11
12 .container {
13   background-color: #bedc1f;
14   background-image: url(gambar\selam.png);
15   padding: 20px;
16   border-radius: 50px;
17   box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
18   width: 500px;
19 }
20
21 h2 {
22   text-align: center;
23   font-family: 'Times New Roman', Times, serif;
24   background-color: #252525;
25   border-radius: 50px;
26 }
27
```

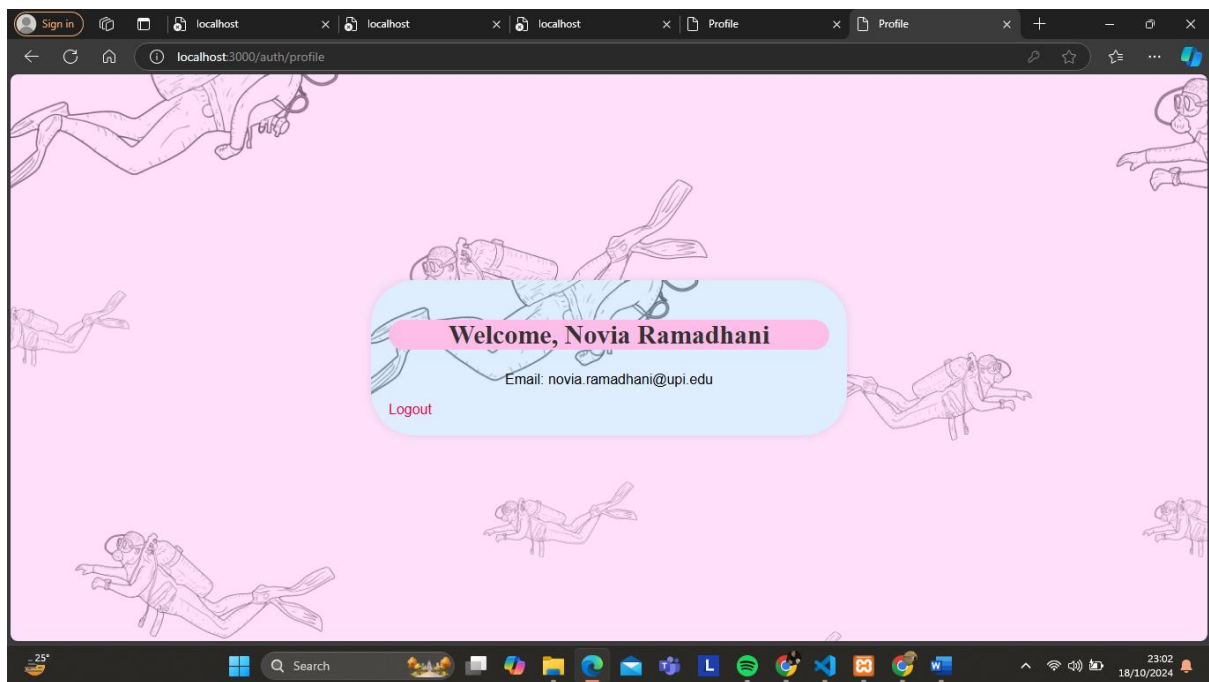
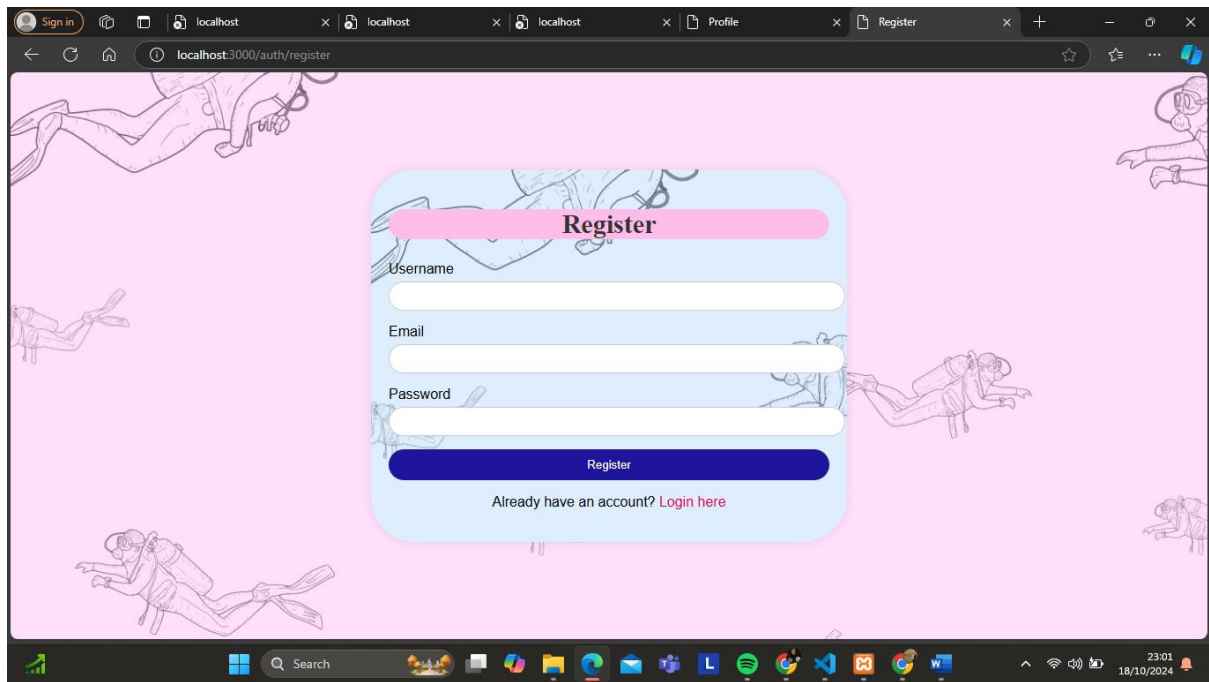
PS C:\Users\novia\OneDrive\Documents\PEMWEB Pertemuan 6> npm init -y  
Wrote to C:\Users\novia\OneDrive\Documents\PEMWEB Pertemuan 6\package.json:

```
public > # styles.css > .container
21 h2 {
22   font-family: 'Times New Roman', Times, serif;
23   background-color: rgb(255, 190, 233);
24   border-radius: 50px;
25   font-size: 30px;
26   font-weight: bold;
27   color: #333;
28 }
29
30 label {
31   display: block;
32   margin-bottom: 5px;
33 }
34
35 input {
36   width: 100%;
37   padding: 8px;
38   margin-bottom: 15px;
39   border: 1px solid #ccc;
40   border-radius: 50px;
41 }
42
43 button {
44   width: 100%;
45   font-size: 18px;
46   padding: 10px;
47   background-color: #3998d8;
48   color: white;
49   border: none;
50   border-radius: 50px;
51   cursor: pointer;
52 }
53
54 button:hover {
55   background-color: #1e159c;
56 }
57
58 p {
59   text-align: center;
60 }
61 a {
62   color: #e90046;
63   text-decoration: none;
64 }
65 a:hover {
66   text-decoration: underline;
67 }
```

## Hasil dari CSSnya







## Kesimpulan