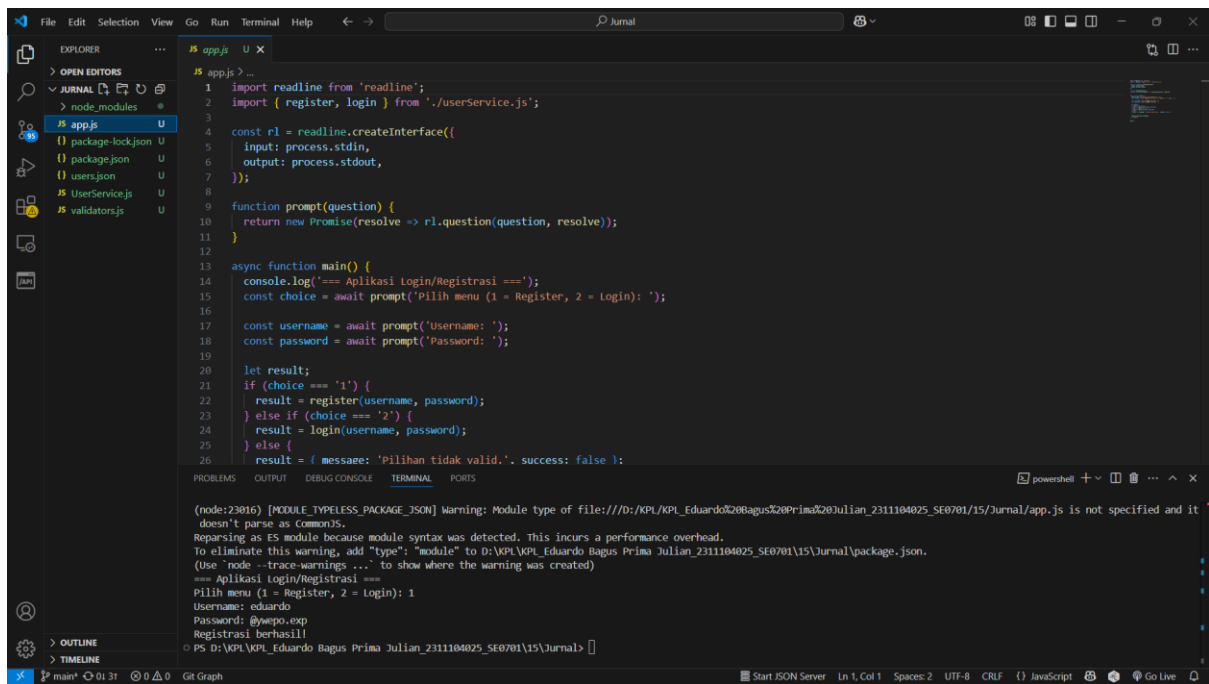


2311104025

Eduardo Bagus Prima Julian

SE0701



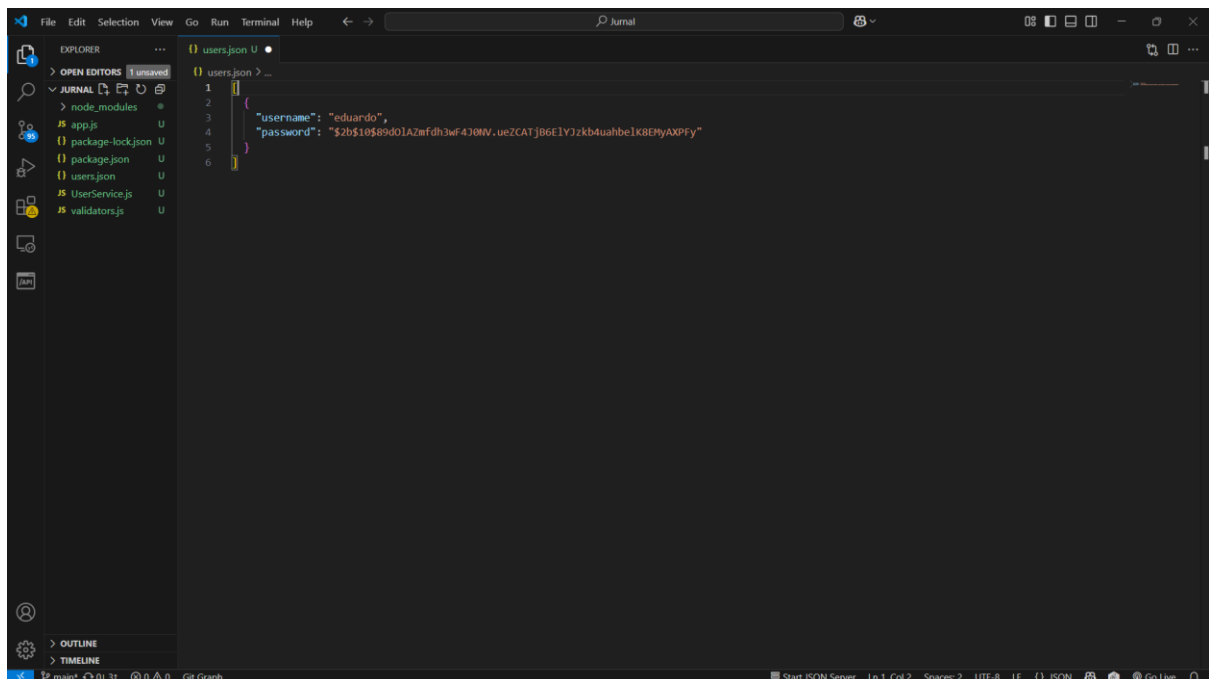
The screenshot shows the Visual Studio Code editor with a project named 'Jurnal'. The Explorer sidebar on the left shows the file structure: 'Jurnal' (containing 'package-lock.json', 'package.json', 'users.json', 'UserService.js', and 'validators.js') and 'node\_modules'. The main editor window displays 'app.js' with the following code:

```
1 import readline from 'readline';
2 import { register, login } from './UserService.js';
3
4 const rl = readline.createInterface({
5   input: process.stdin,
6   output: process.stdout,
7 });
8
9 function prompt(question) {
10   return new Promise(resolve => rl.question(question, resolve));
11 }
12
13 async function main() {
14   console.log('=== Aplikasi Login/Registrasi ===');
15   const choice = await prompt('Pilih menu (1 = Register, 2 = Login): ');
16
17   const username = await prompt('Username: ');
18   const password = await prompt('Password: ');
19
20   let result;
21   if (choice === '1') {
22     result = register(username, password);
23   } else if (choice === '2') {
24     result = login(username, password);
25   } else {
26     result = { message: 'Pilihan tidak valid.', success: false };
27   }
28 }
```

The bottom panel shows the 'TERMINAL' output with the following text:

```
(node:23816) [MODULE_TYPELESS_PACKAGE_JSON] Warning: Module type of file:///D:/KPL_EduardoBagusPrima20Julian_2311104025_SE0701/15/Jurnal/app.js is not specified and it
doesn't parse as CommonJS.
Reparsing as ES module because module syntax was detected, This incurs a performance overhead.
To eliminate this warning, add "type": "module" to D:\KPL_Eduardo Bagus Prima Julian_2311104025_SE0701\15\Jurnal\package.json.
(Use 'node --trace-warnings ...' to show where the warning was created)
=== Aplikasi Login/Registrasi ===
Pilih menu (1 = Register, 2 = Login): 1
Username: eduardo
Password: @wepo.vxp
Registrasi berhasil!!
PS D:\KPL_Eduardo Bagus Prima Julian_2311104025_SE0701\15\Jurnal>
```

Sebelum registrasi tidak ada user.json, namun setelah menginputkan username dan password users.json muncul dan berisi password yg sudah di hashing seperti berikut:



The screenshot shows the Visual Studio Code editor with the 'users.json' file open in the main editor window. The file contains the following JSON data:

```
1 {
2   "username": "eduardo",
3   "password": "$2b$10$89d01A2mfdh3wF4J0NV.ueZCATJb6E1YJzkb4uahbe1K8EHyAXPFy"
4 }
```

The Explorer sidebar on the left shows the file structure, including 'users.json' under the 'Jurnal' directory.