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Modularization Concept:

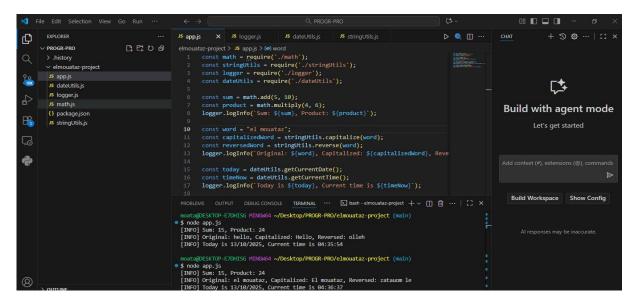
Modularization is a technique in software development where code is divided into separate modules or files, each responsible for a specific functionality. This improves code readability, maintainability, and reusability.

Project Structure Explanation:

- math.js → Contains math-related functions (add, multiply).
- stringUtils.js → Contains string manipulation functions (capitalize, reverse).
- logger.js → Provides standardized logging (logInfo, logError).
- dateUtils.js → Provides date and time utilities (getCurrentDate, getCurrentTime).
- app.js → Main file that imports all modules and uses their functions to perform tasks.

How Modules Work Together:

- app.js imports all modules using require.
- Each module exposes functions via module.exports.
- Functions from modules are called in app.js to perform tasks like calculations, string manipulations, logging, and date/time display.



How to Use the Project

https://www.npmjs.com/package/elmouataz-project

1. Installation

- 1. Make sure you have **Node.js** and **npm** installed on your computer. You can verify this by running:
- 2. node -v
- 3. npm -v
- 4. Install the package globally or locally depending on your needs:

Globally (accessible anywhere):

npm install -g elmouataz-project

Locally (inside your project folder):

npm install elmouataz-project

2. Importing the Package

```
If you installed it locally, import it in your JavaScript file:
```

```
const project = require('elmouataz-project');
```

or (if using ES Modules):

import project from 'elmouataz-project';

3. Using the Functions

After importing, you can use the functions or classes provided by the package.

For example:

```
const result = project.exampleFunction('Hello World');
```

console.log(result);

(Replace exampleFunction with the actual function name your package provides.)

4. Running the Project

If the project includes a command-line interface (CLI), you can run it directly from the terminal:
project-name
or
npx project-name
5. Updating the Package
To get the latest version:
npm update elmouataz-project
6. Uninstalling
If you no longer need it:
npm uninstall elmouataz-project

7. Example Output

Input: hello

Output: Hello