SIT323/SIT737 - Cloud Native Application Development

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2.1P: Node.js and Express

GitHub Link: https://github.com/AndyWanng/Deakin-SIT323-

2024.git

Code Overview:

The provided code establishes a web server using Node.js and the Express framework. It serves a static HTML file to clients accessing the server.

Key Components:

- Express Initialization:
 - **const app = express()**;: Initializes an Express application, allowing us to define routes and handle HTTP requests.
- Port Configuration:
 - **const port = 3000;**: Specifies the port number where the server will listen for incoming requests.
- Static File Serving:
 - app.use(express.static('public'));: Instructs Express to serve static files (e.g., HTML, CSS, images) from the 'public' directory.
- Handling Root Route:
 - app.get('/', ...: Defines a route handler for GET requests to the root URL ('/').
 It responds by sending the HTML file located at '/public/index.html' to the client.

• Server Initialization:

• app.listen(port, ...: Starts the server and listens for incoming connections on the specified port. Upon server startup, it logs a message indicating that it's

listening.

HTML File:

The HTML file (index.html) serves as the basic webpage content. It includes a heading (<h1>) and a paragraph (), displaying the text "Hello, World!" and "This is a simple HTML page served by Express on Node.js."

Conclusion:

The provided code creates a straightforward web server using Node.js and Express, serving a static HTML page. This setup can be expanded and customized to develop more complex web applications.

Screenshots of the code:

index.html:

server.js

running on port 3000:

Terminal Local × + ×
Windows PowerShell
版权所有(C) Microsoft Corporation。保留所有权利。
安装最新的 PowerShell, 了解新功能和改进! <u>https://aka.ms/PSWindows</u>
PS C:\Users\22396\WebstormProjects\task-2.1> node server.js
Server listening at 3000

Webpage:

Hello, World!

This is a simple HTML page served by Express on Node.js.