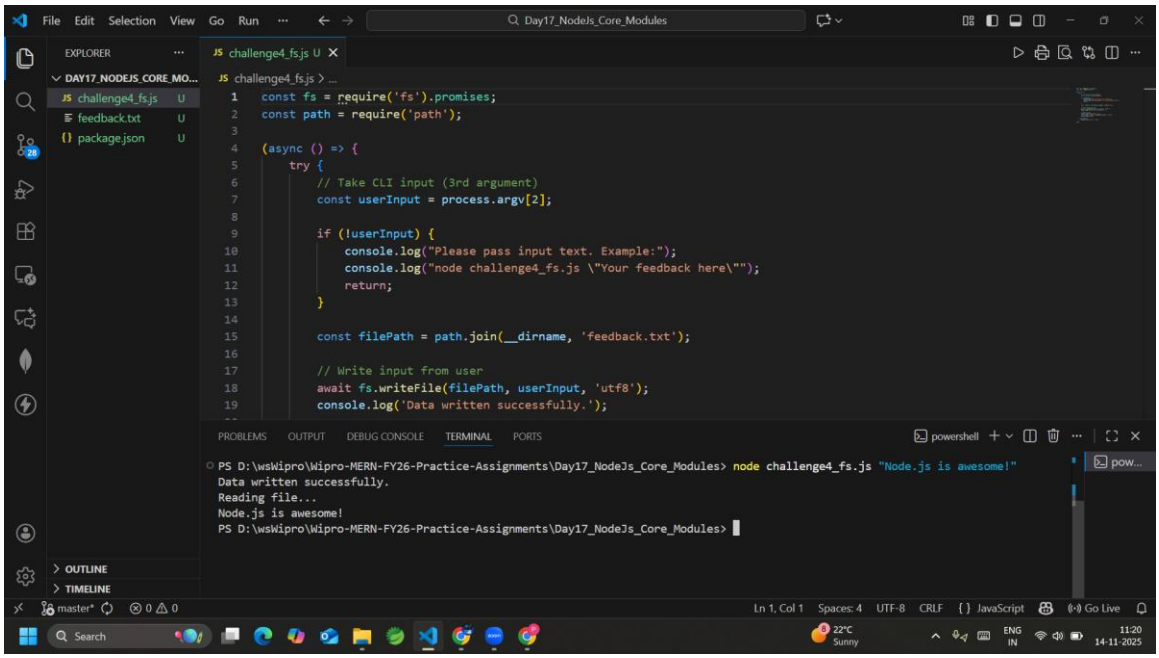
Day 17 — Node.js Core Modules Project Report

Challenge 4 — File System (fs)

This challenge involved writing user-provided CLI input into a file named feedback.txt using fs.promises. After writing, the program reads the same file and prints the content back to the terminal.

Approach: The solution uses async/await, process.argv for CLI input, and writeFile/readFile methods to perform file operations efficiently and cleanly.

Output Screenshot:

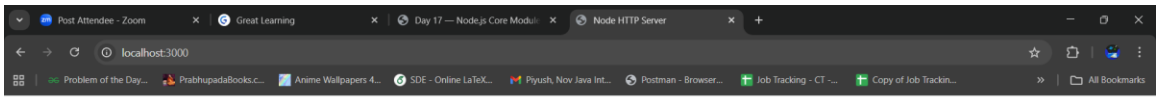


Challenge 5 — HTTP Module

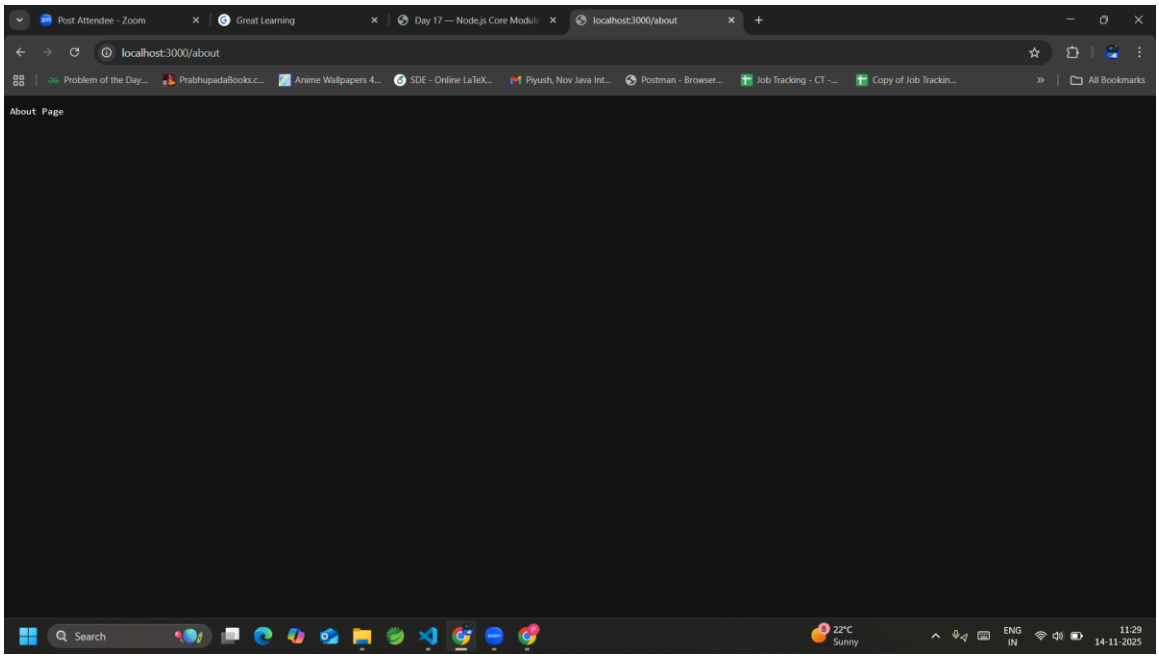
This challenge required creating a basic Node.js HTTP server without Express, supporting routes '/', '/about', and returning appropriate responses.

Approach: The solution uses the built-in http module, route matching, and also implements a bonus feature to serve a static index.html file if present.

Home Page Output Screenshot:



About Page Output Screenshot:

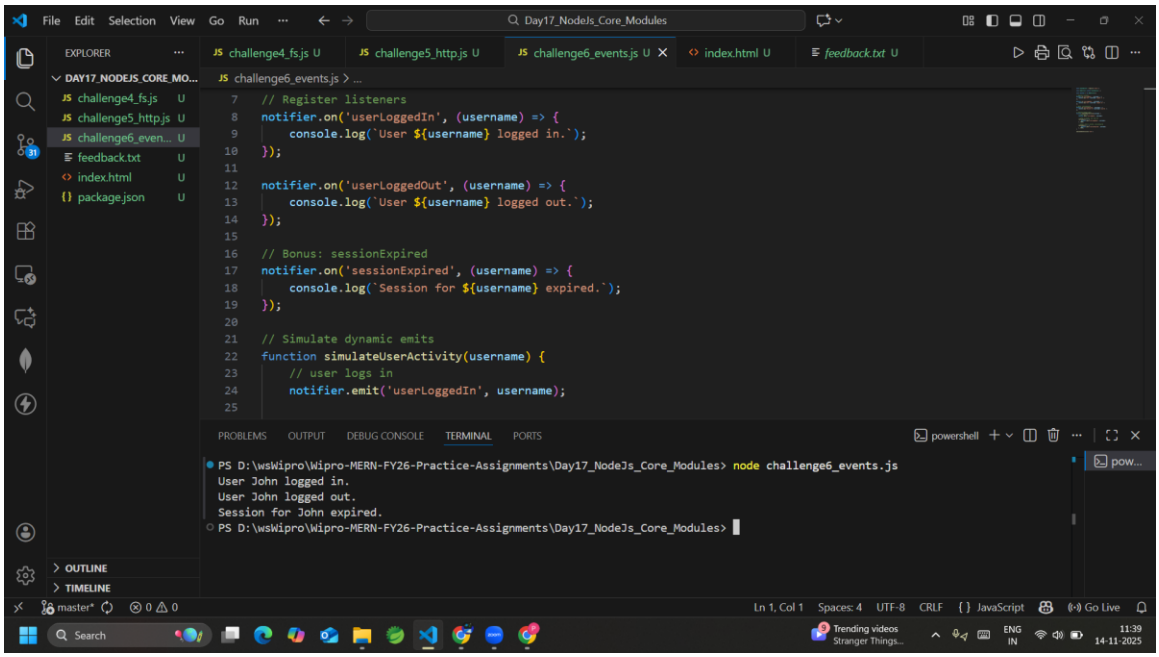


Challenge 6 — Events Module (EventEmitter)

This challenge involved simulating user activity by emitting events such as userLoggedIn, userLoggedOut, and a bonus sessionExpired event using Node's EventEmitter.

Approach: A custom notifier class extends EventEmitter, listeners are registered for all events, and timed emits simulate realistic user session behavior.

Output Screenshot:


File Edit Selection View Go Run
Day17_NodeJs_Core_Modules
EXPLORER
challenge4_fs.js U
challenge5_http.js U
challenge6_events.js U
index.html U
feedback.txt U
DAY17_NODEJS_CORE_MO...
challenge4_fs.js U
challenge5_http.js U
challenge6_even... U
feedback.txt U
index.html U
package.json U
challenge6_events.js > ...
7 // Register listeners
8 notifier.on('userLoggedIn', (username) => {
9 console.log(`User ${username} logged in.`);
10 });
11
12 notifier.on('userLoggedOut', (username) => {
13 console.log(`User ${username} logged out.`);
14 });
15
16 // Bonus: sessionExpired
17 notifier.on('sessionExpired', (username) => {
18 console.log(`Session for ${username} expired.`);
19 });
20
21 // Simulate dynamic emits
22 function simulateUserActivity(username) {
23 // user logs in
24 notifier.emit('userLoggedIn', username);
25
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
powershell
PS D:\wsWipro\Wipro-MERN-FY26-Practice-Assignments\Day17_NodeJs_Core_Modules> node challenge6_events.js
User John logged in.
User John logged out.
Session for John expired.
PS D:\wsWipro\Wipro-MERN-FY26-Practice-Assignments\Day17_NodeJs_Core_Modules>
OUTLINE
TIMELINE
master*
Ln 1, Col 1 Spaces: 4 UTF-8 CRLF JavaScript Go Live
Search
Trending videos Stranger Things...
ENG IN
11:39 14-11-2025