

Week-5

Create a custom server using http module and explore the other modules of Node JS like OS, path, event

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// Step 1: Import required modules
const http = require('http');
const os = require('os');
const path = require('path');
const { EventEmitter } = require('events');

// Step 2: Create an instance of EventEmitter
const eventEmitter = new EventEmitter();

// Step 3: Create a simple HTTP server
const server = http.createServer((req, res) => {
  res.writeHead(200, { 'Content-Type': 'text/plain' });
  res.end('Hello, World!\n');
});

// Step 4: Define server port and hostname
const port = 3000;
const hostname = '127.0.0.1';

// Step 5: Listen for requests on the specified port and hostname
server.listen(port, hostname, () => {
  console.log(`Server running at http://${hostname}:${port}/`);
});

// Step 6: Print OS information
console.log('OS Type:', os.type());
console.log('OS Platform:', os.platform());
console.log('OS Architecture:', os.arch());
console.log('CPU Cores:', os.cpus().length);

// Step 7: Print current working directory
console.log('Current Working Directory:', process.cwd());

// Step 8: Join paths using the path module
const joinedPath = path.join(__dirname, 'public', 'images');
console.log('Joined Path:', joinedPath);

// Step 9: Handle a custom event
eventEmitter.on('customEvent', (data) => {
  console.log('Custom Event Triggered:', data);
});

// Step 10: Emit a custom event
eventEmitter.emit('customEvent', { message: 'Hello from custom event!' });
```

```
C:\Windows\System32\cmd.e x + v
Microsoft Windows [Version 10.0.22631.3447]
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C:\Users\Balaji Lanka\Desktop\csec>node server.js
OS Type: Windows_NT
OS Platform: win32
OS Architecture: x64
CPU Cores: 16
Current Working Directory: C:\Users\Balaji Lanka\Desktop\csec
Joined Path: C:\Users\Balaji Lanka\Desktop\csec\public\images
Custom Event Triggered: { message: 'Hello from custom event!' }
Server running at http://127.0.0.1:3000/
```

