

VNR VJIET

Name of the Laboratory: _____

Name of the Experiment: _____

Experiment No: _____ Date: _____

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

Program:

```
server.js
const http = require('http');
const os = require('os');
const path = require('path');
const EventEmitter = require('events');

// Create a custom event emitter
const eventEmitter = new EventEmitter();

// Create HTTP server
const server = http.createServer((req, res) => {
  console.log('Request URL:', req.url); // For debugging

  res.writeHead(200, { 'Content-Type': 'text/plain' });

  if (req.url === '/') {
    res.end('Welcome to the Home Page!');
  } else if (req.url === '/osinfo') {
    const osInfo = `
      OS Platform: ${os.platform()}
      OS Type: ${os.type()}
      CPU Architecture: ${os.arch()}
      Total Memory: ${os.totalmem()}
      Free Memory: ${os.freemem()}
    `;
    res.end(osInfo);
  } else if (req.url === '/pathinfo') {
    const fileName = path.basename(__filename);
    const dirName = path.dirname(__filename);
    res.end(`Current File: ${fileName}\nDirectory: ${dirName}`);
  } else if (req.url === '/event') {
    eventEmitter.emit('customEvent', 'A custom event was triggered!');
    res.end('Custom event has been emitted. Check the console!');
  } else {
    res.statusCode = 404;
    res.end('404 Not Found');
  }
});
```

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```
});
```

```
// Listen for custom event
eventEmitter.on('customEvent', (msg) => {
  console.log('Event Message:', msg);
});
```

```
// Start the server
server.listen(3000, () => {
  console.log('✅ Server is running at http://localhost:3000');
});
```

OUTPUT



Welcome to the Home Page!

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OS Info

OS Platform: win32

OS Type: Windows_NT

CPU Architecture: x64

Total Memory: 16857817088

Free Memory: 3261669376

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Path Info

Current File: server.js

Directory: D:\react-lb\week-9

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Custom event has been emitted. Check the console!

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