# **VNR VJIET**

### Name of the Laboratory:

Name of the Experiment:		
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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!

— 23071A05P8



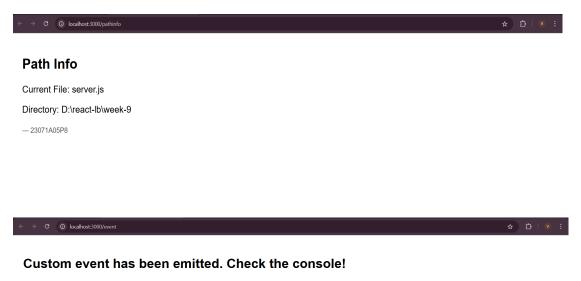
#### **OS Info**

OS Platform: win32
OS Type: Windows\_NT
CPU Architecture: x64
Total Memory: 16857817088
Free Memory: 3261669376
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