# Make Simple and Basic Website

Node JS Tutorial in Hindi #22 Make Simple and Basic Website



Create a basic website with **HTML and CSS** using **Node.js**. We'll load different HTML pages and a CSS file using the `fs` (File System) module and `http` core module.

# Create a server file

website.js

```
const http = require("http");

http
  .createServer((req, resp) => {
    resp.write("page check");
    resp.end();
```

```
  })
  .listen(3200);
```

This creates a simple HTTP server.

# Load HTML file using `fs`

```
const http = require("http");
const fs = require("fs");

http
  .createServer((req, resp) => {
    fs.readFile("html/home.html", "utf-8", (error, data) => {
      if (error) {
        resp.writeHead(500, { "content-type": "text/plain" });
        resp.end("Internal Server Error");
        return false;
      }

      resp.write(data);
      resp.end();
    });
  })
  .listen(3200);
```

This loads the `home.html` file and displays its content on the browser using **asynchronous** `fs.readFile()`.

# Sync vs Async in `fs` (Used in Header)

In the code below, we use:

```
let collectHeaderData = fs.readFileSync("html/header.html", 'utf-8');
```

### Synchronous (Sync)

`fs.readFileSync()` blocks further execution until the file is fully read.

Use it for small files like `header.html` where immediate availability is needed.

## Later in the same code:

```
fs.readFile("html"+file+".html", 'utf-8', (error, data) => {
  ...
});
```

### Asynchronous (Async)

`fs.readFile()` does **not block** the code. It continues and runs the callback when data is ready.

Better for performance, especially for larger or external files.

# Handle HTML and CSS File Together

```
const http = require('http');
const fs = require('fs');

http.createServer((req, resp) => {

    //  Sync: Header file loaded before anything else
    let collectHeaderData = fs.readFileSync("html/header.html", 'utf-
8');

    let file = "/home";
    if (req.url !== '/') {
        file = req.url;
```

```
        }

        // Async: Load HTML file with callback
        if (req.url !== '/style.css') {
            fs.readFile("html" + file + ".html", 'utf-8', (error, data) =>
    {

                if (error) {
                    resp.writeHead(500, { "content-type": "text/plain" });
                    resp.end("internal server error");
                    return false;
                }

                resp.write(collectHeaderData + "" + data);
                resp.end();
            });
        }
        // Serve CSS with correct content-type
        else if (req.url === '/style.css') {
            fs.readFile("html/style.css", 'utf-8', (error, data) => {
                if (error) {
                    resp.writeHead(500, { "content-type": "text/plain" });
                    resp.end("css not found");
                    return false;
                }

                resp.writeHead(200, { "content-type": "text/css" });
                resp.end(data);
            });
        }

    }).listen(3200);
```

# Why CSS Didn't Load Earlier?

Because we didn't set `"Content-Type": "text/css"`.

Browsers need the correct header to apply styles.

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