



## Day 5: Building a Dynamic Server



What is a dynamic server?

- A server that **changes its response** based on the request.
- Can read URLs and **respond differently** to different paths or query parameters.



### Example:

js

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

const server = http.createServer((req, res) => {
  const parsedUrl = url.parse(req.url, true);

  if (parsedUrl.pathname === '/') {
    res.end('Welcome to the homepage!');
  } else if (parsedUrl.pathname === '/about') {
    res.end('This is the about page. ');
  } else if (parsedUrl.pathname === '/sum') {
    const a = parseInt(parsedUrl.query.a) || 0;
    const b = parseInt(parsedUrl.query.b) || 0;
    res.end(` The sum is ${a + b} `);
  } else {
    res.statusCode = 404;
    res.end('Page not found');
  }
});

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



Try these URLs:

- /
- /about
- /sum?a=5&b=10



Task:

- Add your own route `/greet?name=Supriya` that returns “Hello, Ashish!”