



The http Module



Outline HTTP Server

Common Methods

The request and response objects

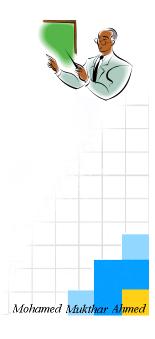
Status Codes

Methods

Navigating

Response URL property

Getting content from HTML file



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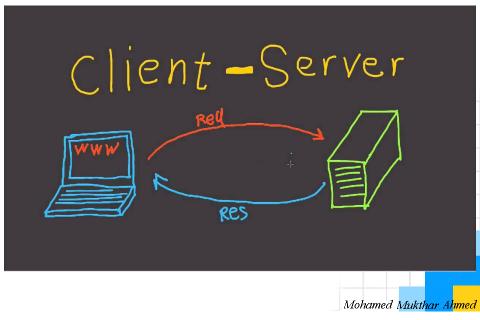




- We use the http module to create an HTTP server.
- The createServer() method is used to create the HTTP server
- The server is set to listen() on the specified port. When the server is ready, the listen callback function is called.
- The callback function we pass (to createServer()) is the one that's going to be executed upon every request that comes in.
- Whenever a new request is received, the request event is called, providing two objects: a request (an http.IncomingMessage object) and a response (an http.ServerResponse object).

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The request and response obj



- request object provides the request details. Through it, we access the request headers and request data.
- **response** object is used to populate the data we're going to return to the client.
- Traditionally called as req and res
- In this case with:

```
res.statusCode = 200;
```

- We set the statusCode property to 200, to indicate a successful response.
- We also set the Content-Type header:

```
res.setHeader('Content-Type', 'text/html');

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```

The request and response obj



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- We set the statusCode property to 200, to indicate a successful response.
- We also set the **Content-Type** header:

```
res.setHeader('Content-Type', 'text/html');
```

and we end / close the response, adding the content as an argument to end():

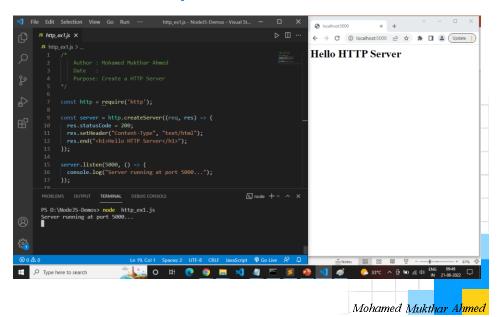
```
res.end('<h1>Hello, World!</h1>');
```

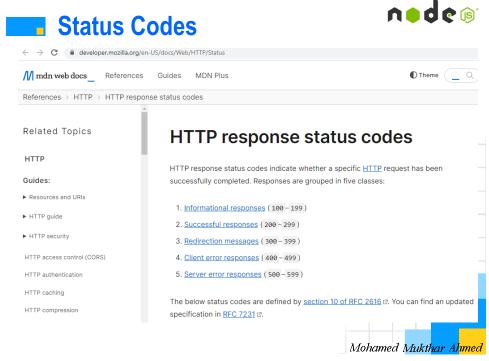


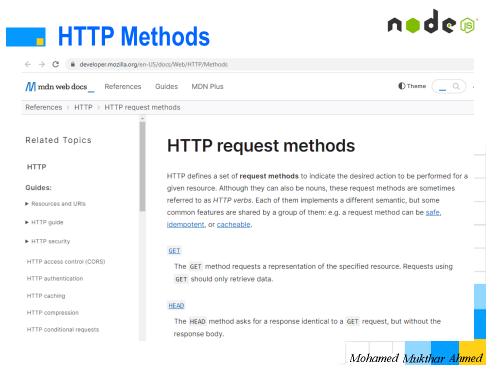
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Code Example









Navigating / Routing



■ The **request** object has the **url** property that can be checked and accordingly navigated (routed).

```
if (req.url === '/') {
    res.end('<h1>Welcome to HOME page!</h1>')
}

if (req.url === '/about') {
    res.end('<h1>About!</h1>')
}

The HTML template string helps to respond with multi-line text.

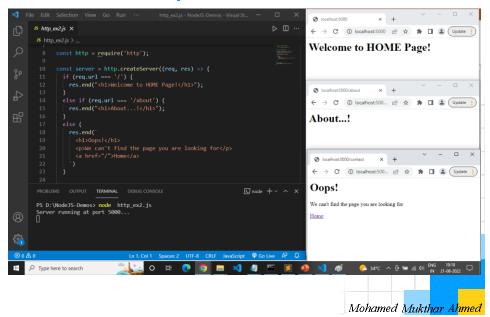
HTML template string is enclosed in BACK TICKs

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```

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Code Example





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