Node.js HTTP Module

## **The Built-in HTTP Module**

Node.js has a built-in module called HTTP, which allows Node.js to transfer data over the Hyper Text Transfer Protocol (HTTP).

To include the HTTP module, use the require() method:

var http = require('http');

## **Node.js as a Web Server**

The HTTP module can create an HTTP server that listens to server ports and gives a response back to the client.

Use the createServer() method to create an HTTP server:

var http = require('http');  
  
//create a server object:  
http.createServer(function (req, res) {  
  res.write('Hello World!'); //write a response to the client  
  res.end(); //end the response  
}).listen(3020);

## **Add an HTTP Header**

If the response from the HTTP server is supposed to be displayed as HTML, you should include an HTTP header with the correct content type:

### **Example**

var http = require('http');  
http.createServer(function (req, res) {  
**res.writeHead(200, {'Content-Type': 'text/html'});**  res.write('Hello World!');  
  res.end();  
}).listen(8080);

The first argument of the res.writeHead() method is the status code, 200 means that all is OK, the second argument is an object containing the response headers.

## **Read the Query String**

The function passed into the http.createServer() has a req argument that represents the request from the client, as an object (http.IncomingMessage object).

This object has a property called "url" which holds the part of the url that comes after the domain name:

var http = require('http');  
http.createServer(function (**req**, res) {  
  res.writeHead(200, {'Content-Type': 'text/html'});  
  res.write(**req.url**);  
  res.end();  
}).listen(8080);

## **Split the Query String**

There are built-in modules to easily split the query string into readable parts, such as the URL module.

1. This url has to be fetched from query string that will enter on running mode

var http = require('http');  
**var url = require('url');**  
http.createServer(function (req, res) {  
  res.writeHead(200, {'Content-Type': 'text/html'});  
**var q = url.parse(req.url, true).query;**  var txt = **q.year** + " " + **q.month**;  
  res.end(txt);  
}).listen(8080);

1. This url is defined and will be fetched on web server:

var http = require('http');

var url = require('url');

var addr="http://localhost:8080/default.html?year=2024&month=feb";

http.createServer(function (req, res) {

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

/\*Use the url module to turn the querystring into an object:\*/

var q = url.parse(addr, true).query;

/\*Return the year and month from the query object:\*/

var txt = q.year + " " + q.month;

res.end(txt);

}).listen(3001);