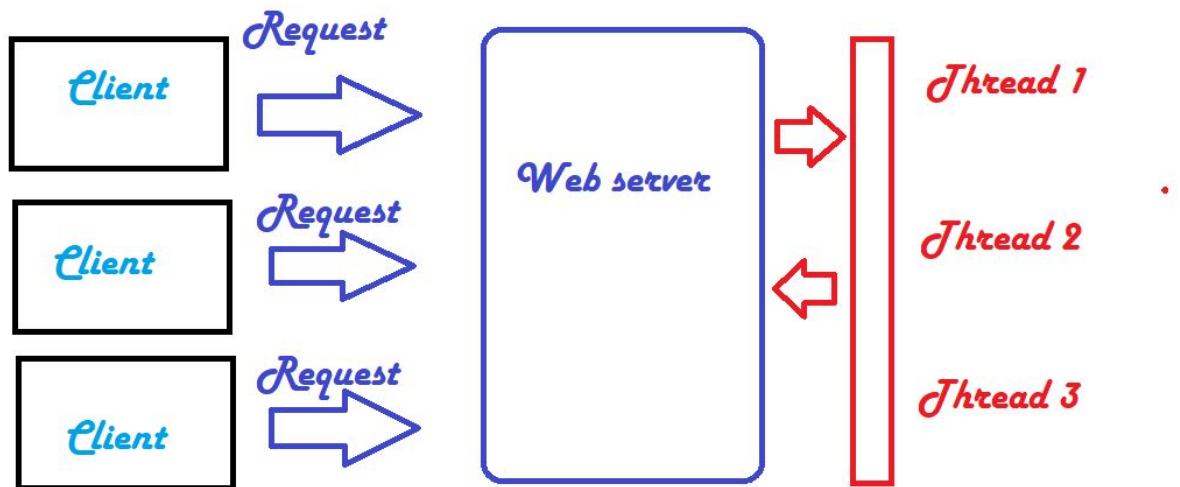
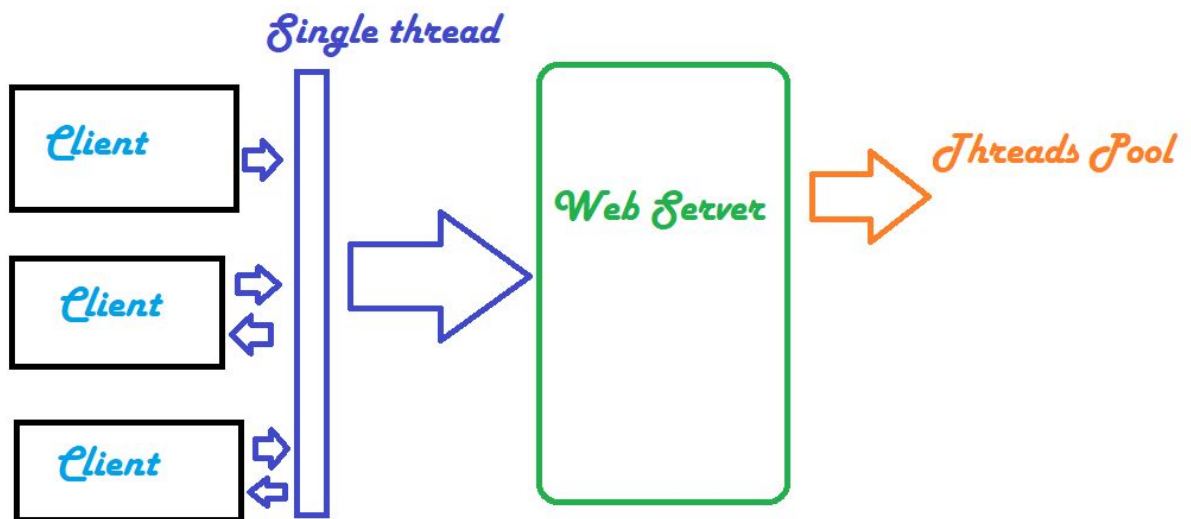


# Traditional Approach before Node.js



## After Node.js



# Node.js Modules

1. Core Modules
2. Local Modules
3. Third Party Modules

## 1. Core Modules

- a. http : includes all the classes and methods and events of http
- b. url
- c. querystring
- d. path
- e. fs
- f. util

## 2. Local Modules

Create the Local Module with name as “test.js” and place this code

test - Notepad

File Edit Format View Help

```
exports.myDateTime = function(){  
    return Date();  
};
```

Create the new file with the name as “LocalModule.js” and place the below code

LocalModule - Notepad

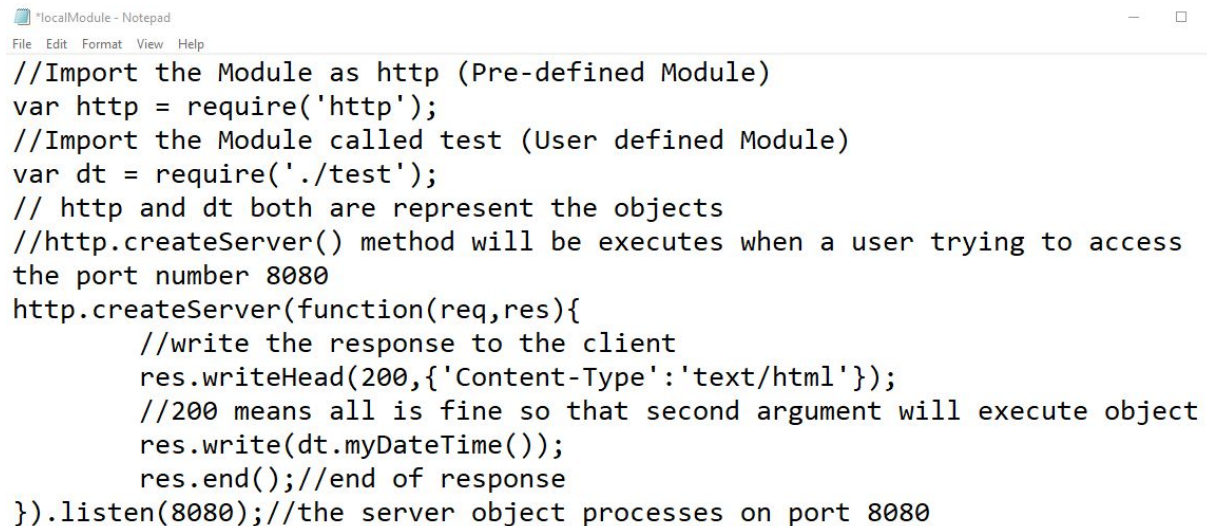
File Edit Format View Help

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

Go to command prompt and then type node localModule.js and then go to browser ping for localhost:8080

```
C:\Users\Anil Kumar-DSPS>node localModule.js
```

## Explanation of the above programs:



```
*localModule - Notepad
File Edit Format View Help
//Import the Module as http (Pre-defined Module)
var http = require('http');
//Import the Module called test (User defined Module)
var dt = require('./test');
// http and dt both are represent the objects
//http.createServer() method will be executes when a user trying to access
the port number 8080
http.createServer(function(req,res){
    //write the response to the client
    res.writeHead(200,{ 'Content-Type':'text/html'});
    //200 means all is fine so that second argument will execute object
    res.write(dt.myDateTime());
    res.end();//end of response
}).listen(8080);//the server object processes on port 8080
```

## Node.js as a File Server

1. Read file
2. Create file
3. Update file
4. Delete file
5. Rename file

First create the HTML Doc

```
Demo1 - Notepad
File Edit Format View Help
<html>
    <body>
        <h1>Dhyanahita</h1>
    </body>
</html>
```

Create the node.js file

```
fsDemo - Notepad
File Edit Format View Help
var http = require('http');//http Module
var fs = require('fs');//fs - File Server Module
http.createServer(function(req,res){
    fs.readFile('Demo1.html',function(err,data){
        res.writeHead(200,{ 'Content-Type': 'text/html' });
        res.write(data);
        return res.end();
    });
}).listen(8080);

C:\Users\Anil Kumar-DSPS>node fsDemo.js
```

**Task :** Create Html with some basic CSS with one or two classes, then load that file to node.js

`fs.appendFile()` : It's for updating the existing file, it means let's take an example of a text file and try to write some new data then it will update the existing file.

`fs.open()` :

`fs.writeFile()` :