

# Node Js File System :

**Write API endpoint which will create a text file in a particular folder?**

```
const path = require("path");
const os = require("os");
const fs = require("fs");
const express = require("express");
const app = express();
app.get("/", function(req, res){

    res.send(Date())
});
function getDateString() {
    const date = new Date();
    const year = date.getFullYear();
    const month = `${date.getMonth() + 1}`.padStart(2, '0');
    const day = `${date.getDate()}`.padStart(2, '0');

    const hour = date.getHours();
    const minute = date.getMinutes();
    const sec = date.getSeconds();

    return `${year}${month}${day}${hour}${minute}${sec}`
}
console.log(getDateString());
function time()
{
    const date = new Date();
    const hour = date.getHours();
    const minute = date.getMinutes();
    const sec = date.getSeconds();

    return `${hour}:${minute}:${sec}`
}

fs.writeFile(`C:/Users/lenovo/documents/${getDateString()}.txt`,time(),
function(err){
    if(err)
        throw err;
    console.log("Filezzz is created")
}
);
```

### **Write API endpoint to retrieve all text files in that particular folder?**

```
fs.readdir("C:/Users/lenovo/documents/",function(err,files){
  if(err) throw err;
  console.log(files);
})
```

### **What is Client?**

Client is a piece of hardware or software that accesses a service made available by server. For example, in web browsers such as google chrome, firefox or IE that connects to web servers and retrieve web pages for display email clients to retrieve email from mail servers.

### **What is Server?**

Server is a computer that servers information to other computers. These computers connect to a server through either a LAN or WAN. Server collects and sends information across a network. Web server finds and builds all the data needed whatever requested by the web browser. Then web browser will display the data and displays the website.

### **What is nodeJS?**

NodeJs is an open-source, cross platform, backend javascript runtime environment and that runs on V8 engine that executes javascript outside the web browser. It lets developers use javascript to write command line tools and runs scripts to produce dynamic webpage before page is sent to user's web browser.

**NPM packages** → NPM(node package manager) is a package manager for Js programming language that provides hosting for software development and version control using git. Using "npm install <package\_name> will download the latest version of the package to be used in the code. It can also be specified as global using -g.

**Inbuild package** → Whenever NPM is installed these packages will install automatically. No need to install these separately.

**Third party package** → To add more functionalities to our code we need to install it separately using npm install <package\_name>. It downloads from a cloud stored npm repository.

**Custom package** → here using npm registry, we can host our code that is only visible to us and our collaborators. It allows you to manage and use private code alongside public packages. Custom packages always have a scope it is like creating our own package.