

# Introduction Node JS

JavaScript Run time: Run JS code without embedding that in Web Browser.

Using Google Chrome's V8 engine

Download from here: <https://nodejs.org/en/download>

once it is installed check version

open cmd --> run command

node -v (node version)

npm -v (node package manager version)

How to install Express?

npm i express (this command will install express locally)

locally means in current folder.

how to do global installation:

npm install -g mysql

How to create Project in NodeJS?

-- create folder with project name

I want to add configuration file:

move to the folder (cd folder-name)

npm init -y (this will create package.json file)

once the project folder is having package.json we can start installing dependencies

npm i express (install locally)

npm i nodemon --save-dev (this will install for development environment only)

After executing above commands you can see node\_modules folder and package-lock.json file.

node\_modules folder we can ignore while uploading on github

whenever its required you can generate by just executing npm install command.

Just keep 1 thing in your mind run this command at that place where you have package.json and lock file located.

To configure nodemon with start command.

edit package.json file as shown below.

```
{
```

```

"name": "sample-api",
"version": "1.0.0",
"description": "",
"main": "index.js",
"scripts": {
  "start": "nodemon server.js",
  "test": "echo \"Error: no test specified\" && exit 1"
},
"keywords": [],
"author": "",
"license": "ISC",
"dependencies": {
  "express": "^5.1.0"
},
"devDependencies": {
  "nodemon": "^3.1.10"
}
}

```

Create Server.js file

```

const express = require('express');

const app= express(); //server created

//localhost:5000/
app.get('/',(req,res)=>{
  res.status(200).send('<h1>This is My landing Page</h1>')
})
//localhost:5000/about
app.get('/about',(req,res)=>{
  res.status(200).send('<h1>This is My About Us Page</h1>')
})
//localhost:5000/contact
app.get('/contact',(req,res)=>{
  res.status(200).send('<h1>Contact Us</h1>')
})
app.get('/hello',(req,res)=>{
  res.status(200).send('<h1>Hello From SONAM')
})

```

```
app.listen(5000,()=>console.log('Server started'))
```

Once this is done you can run it from terminal.

```
D:\LetsUpgrade\node-js-express\Sample-API>npm start

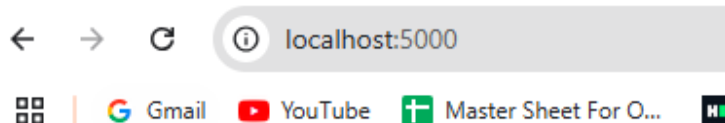
> sample-api@1.0.0 start
> nodemon server.js

[nodemon] 3.1.10
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting `node server.js`
Server started
```

now whenever you change your code and save it your server will restart automatically.

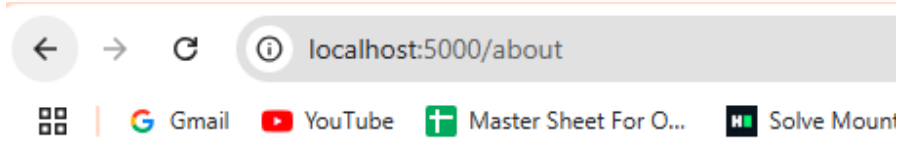
```
[nodemon] restarting due to changes...
[nodemon] starting `node server.js`
Server started
[nodemon] restarting due to changes...
[nodemon] restarting due to changes...
[nodemon] starting `node server.js`
Server started
[nodemon] restarting due to changes...
[nodemon] starting `node server.js`
[nodemon] restarting due to changes...
[nodemon] starting `node server.js`
Server started
```

You can see the result in browser by accessing path



# This is My landing Page

About Us



# This is My About Us Page

If you want to load HTML page then create one folder named views and create index.html file index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Home Page</title>
</head>
<body>
<h1>Sonam Soni</h1><hr>
<!-- p*4>lorem -->
<p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Corrupti quasi a
nesciunt numquam tempora recusandae rem. Pariatur sed obcaecati ullam sit
quasi ipsam voluptatem non id porro, quidem animi nobis.</p>
<p>Nam sunt ratione id quia quisquam dolor dolorum obcaecati, officiis
voluptate! Ipsa et odio fugit vero, praesentium magni harum quasi est.
Veritatis dolor dolorum doloribus odit molestiae reiciendis eos sapiente?</p>
<p>Quaerat explicabo aut recusandae saepe omnis nesciunt. Error,
reprehenderit? Tenetur iure velit repudiandae assumenda aut quae sit
perspiciatis reiciendis. Ducimus tempore error praesentium consequatur quod
tempora alias, sed sapiente facere!</p>
<p>Ratione quisquam consequuntur accusantium rerum, expedita non unde iste.
Ut, omnis velit laudantium quidem nemo eos praesentium ipsa distinctio
excepturi minus esse placeat iusto iste facilis? Corrupti explicabo molestias
error.</p>
</body>
</html>
```

then update server.js code as below.

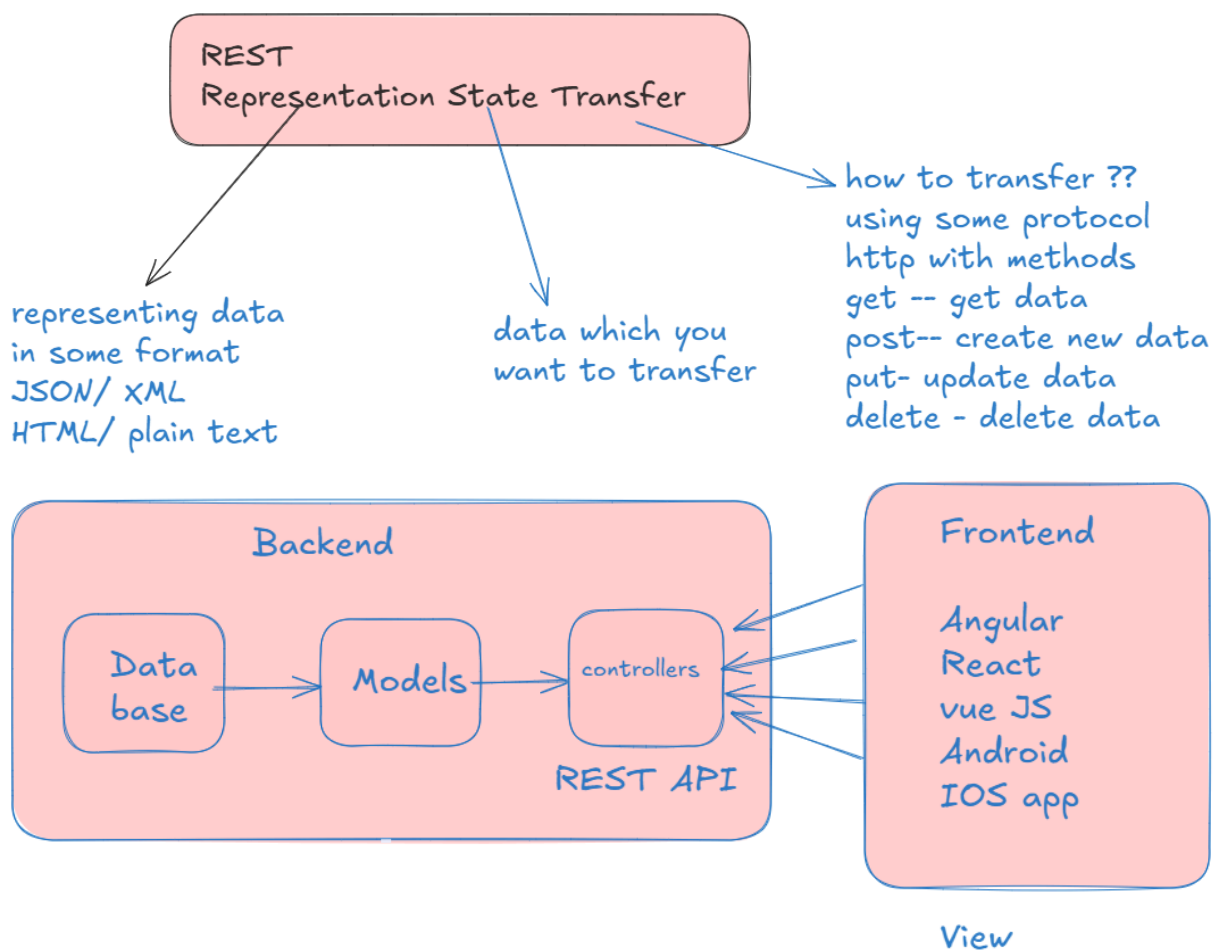
```
//localhost:5000/
```

```

app.get('/',(req,res)=>{
// res.status(200).send('<h1>This is My landing Page</h1>')
res.sendFile(__dirname+'/views/index.html')
})

```

check <http://localhost:5000/> to see html page



Let's Create Plain API which just handles get/post/put/delete request.

Same process let's create project again

<https://github.com/sonam-niit/NodeExpress-Bootcamp> (git hub link for reference code)