

**Date :** 16-6-2020

**Morning Session :** 9am – 11 PM

**By ~** Sundeeep Charan Ramkumar Today

## **Topics:** NPM, Packages

3rd party packages : any one which is apart from our packages knows as 3 party packages , it allows us to write code using the services they mentioned in the package.

3 party packages allow us to consume the services which are not available locally.

### **How to install 3rd party packages**

**NPM:** node package manager (individual) , yarn (developed by facebook) both dose the same thing, manage 3rd party packages

**To install NPM 1st need to install NODEjs**

**Download :** <https://nodejs.org/en/>

**Download LTS version**



**To check either npm installed or not and version**

```
HARI MANGA@LAPTOP-D8S6GDS1 MINGW64 ~/Desktop
$ npm -v
6.14.4
```

**To build dependence file**

**Syntax:** npm init

```
HARI MANGA@LAPTOP-D8S6GDS1 MINGW64 ~/Desktop/16-06-2020
$ npm init
This utility will walk you through creating a package.json file.
It only covers the most common items, and tries to guess sensible defaults.

See `npm help json` for definitive documentation on these fields
and exactly what they do.

Use `npm install <pkg>` afterwards to install a package and
save it as a dependency in the package.json file.

Press ^C at any time to quit.
package name: (16-06-2020) █
```

### Then It will ask some Questions

```
Press ^C at any time to quit.
package name: (16-06-2020) intro-to-npm
version: (1.0.0)
description: app.js
entry point: (app.js)
test command:
git repository:
keywords:
author: yodraj sreenija
license: (ISC)
About to write to C:\Users\HARI MANGA\Desktop\16-06-2020\package.json:

{
  "name": "intro-to-npm",
  "version": "1.0.0",
  "description": "app.js",
  "main": "app.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "author": "yodraj sreenija",
  "license": "ISC"
}

Is this OK? (yes)

HARI MANGA@LAPTOP-D8S6GDS1 MINGW64 ~/Desktop/16-06-2020
$ █
```

Immediately it will create **package.json** file

```

{} package.json > ...
1  {
2    "name": "intro-to-npm",
3    "version": "1.0.0",
4    "description": "app.js",
5    "main": "app.js",
6    "scripts": {
7      "test": "echo \"Error: no test specified\" && exit 1"
8    },
9    "author": "yodraj sreenija",
10   "license": "ISC"
11 }
12

```

Dependence file so imp if you're publishing to github , ybcoz the package which you have installed will be stored into a folder called node module.

**Install singular package in npm package:**

<https://www.npmjs.com/package/axios>

Way to install package

Npm install packagename

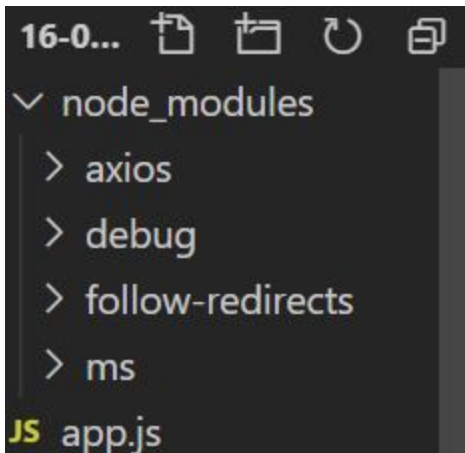
```

HARI MANGA@LAPTOP-D8S6GDS1 MINGW64 ~/Desktop/16-06-2020
$ npm install axios
npm notice created a lockfile as package-lock.json. You should commit this file.
npm WARN intro-to-npm@1.0.0 No repository field.

+ axios@0.19.2
added 4 packages from 7 contributors and audited 4 packages in 3.52s
found 0 vulnerabilities

```

It will create node module folder



How do we make sure that the package should not include inside github

**.gitignore**

**Import package:**

```
var axios = require("axios");  
console.log(axios);
```

Name is which is under “ “ should be equal to which name have installed

**Bundling all the files**

```
HARI MANGA@LAPTOP-D8S6GDS1 MINGW64 ~/Desktop/16-06-2020  
$ npm install parcel-bundler  
npm WARN deprecated core-js@2.6.11: core-js@<3 is no longer maintained and not recommended for usage due to the number of issues. Please, u  
pgrade your dependencies to the actual version of core-js@3.  
[.....] \ fetchMetadata: WARN deprecated core-js@2.6.11: core-js@<3 is no longer maintained and not recommended for usage due
```

```
npm WARN introduction-to-npm@1.0.0 No repository field.  
  
+ parcel-bundler@1.12.4  
added 766 packages from 468 contributors and audited 770 packages in 66.568s  
  
23 packages are looking for funding  
run `npm fund` for details  
  
found 0 vulnerabilities
```



```
+ Codes/JavaScript/NPM packages master± parcel index.html
```

```
+ Codes/JavaScript/NPM packages master± parcel index.html
Server running at http://localhost:1234
: Building app.js...Browserslist: caniuse-lite is outdated. Please run next command `npm update`
: Building dispatchRequest.js...Browserslist: caniuse-lite is outdated. Please run next command `npm update`
: Building enhanceError.js...Browserslist: caniuse-lite is outdated. Please run next command `npm update`
+ Built in 6.96s.
```

```
import axios from "axios"
```

```
Connected
f wrap() {
  var args = new Array(arguments.length);
  for (var i = 0; i < args.length; i++) {
    args[i] = arguments[i];
  }
  return fn.apply(thisArg, args);
}
> |
```

Axios functions printed.

Test run for axios:

```

axios
  .post(`${baseUrl}/api/users`, {
    name: "Sundeep Charan Ramkumar",
    job: "instructor"
  })
  .then(function (response) {
    console.log(response.data);
  })
  .catch(function (err) {
    console.log(err);
  });

```

app.js:33

```

{
  name: "Sundeep Charan Ramkumar",
  job: "instructor",
  id: "396",
  createdAt: "2020-06-16T04:34:36.702Z"
}

```

name: "Sundeep Charan Ramkumar"  
 job: "instructor"  
 id: "396"  
 createdAt: "2020-06-16T04:34:36.702Z"  
 \_\_proto\_\_: Object

To run our own script:

```

{} package.json > ...
1  {
2    "name": "introduction-to-npm",
3    "version": "1.0.0",
4    "description": "",
5    "main": "app.js",
6    "scripts": {
7      "dev": "parcel index.html",
8      "build": "parcel build index.html"
9    },
10   "author": "Sundeep Charan Ramkumar",
11   "license": "ISC",
12   "dependencies": {
13     "axios": "^0.19.2",
14     "parcel-bundler": "^1.12.4"
15   }
16 }

```

To run the script syntax:

`npm run <scriptname>`

```
Codes/JavaScript/NPM packages master± npm run dev
> introduction-to-npm@1.0.0 dev /Users/sundeeep/Desktop/AttainU/Ramanujan/Codes/JavaScript/NPM packages
> parcel index.html
```

It will give same command `parcel index.html`

```
Codes/JavaScript/NPM packages master± npm run build
> introduction-to-npm@1.0.0 build /Users/sundeeep/Desktop/AttainU/Ramanujan/Codes/JavaScript/NPM packages
> parcel build index.html
:: Building index.html...
2020-06-16 10:14:09
```

```
Codes/JavaScript/NPM packages master± npm run build
> introduction-to-npm@1.0.0 build /Users/sundeeep/Desktop/AttainU/Ramanujan/Codes/JavaScript/NPM packages
> parcel build index.html
:+ Built in 8.32s.
dist/app.8be77363.js.map 63.58 KB 14ms
dist/app.8be77363.js    19.08 KB 5.86s
dist/index.html         249 B 2.18s
Codes/JavaScript/NPM packages master±
Ln 8, Col 39 Spaces: 2 UTF-8 LF JSON @ Go Live Prettier: ✓ 2020-06-16 10:15:50
```

### MCQ1:

NPM stands for

Not Submitted ⓘ



☒ Node Package Manager

61.43%

☐ New Package Manager

### MCQ2:

Why is bundling used for?

Not Submitted ⓘ



☒ To make sure file and package imports work

68.57%

☐ To support http requests

### MCQ3:

NPM scripts can be executed with the help of?

Not Submitted ⓘ



☐ npm install

☒ npm run

68.57%

### MCQ4:

Axios requires the request body to be converted to JSON. True or False?

Not Submitted ⓘ



☐ True

☒ False

68.57%



### MCQ5:

.gitignore has an ability to exclude files from pushing to GitHub. True or False?

Not  
Submitted



True

57.14%



False