Modern JS: Installing Node.js and NPM

Open <u>nodejs.html</u> for the markup | Images are taken from: <u>JS Course by Jonas Schmedtmann</u>

Download and Install Node.js from here (download the one with "Recommended For Most Users"). After that, check if Node.js has been installed in the system properly by typing in the commands in terminal or the command prompt, as shown in the screenshot below.

```
Microsoft Windows [Version 10.0.18363.657]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Windows\system32>node -v
v12.16.0

C:\Windows\system32>npm -v
6.13.4
```

The output of those two commands shown above, should be the version numbers of Node.js and NPM as shown above. If that's not the case, then there was some problem while installation of Node.js and therefore, we might've to re-install Node.js.

After that, we now create a <code>package.json</code> file for our project using the command line. Note: We have to be in the respective project folder to create the <code>package.json</code> file. We simply type in: <code>npm_init</code> command in the command prompt (or terminal) and the terminal will ask about the <code>project name</code>, <code>description</code>, <code>entry point</code>, etc as shown below in the screenshot. Fill them up as shown in the screenshot below.

```
Directory of C:\Users\srira\Desktop\JavaScript\Modern-JS-ES6-NPM-Babel-Webpack\forkify_project
15-02-2020 09:19
                      <DTR>
15-02-2020
            09:19
15-02-2020
                                      dist
            09:19
                      <DTR>
15-02-2020 09:21
                      <DIR>
               0 File(s)
                                        0 bytes
               4 Dir(s) 157,325,271,040 bytes free
description: Forkify Project
entry point: (index.js)
test command:
git repository:
keywords:
author: Sriram Chandrabhatta
license: (ISC)
About to write to C:\Users\srira\Desktop\JavaScript\Modern-JS-ES6-NPM-Babel-Webpack\forkify_project\package.json:
save it as a dependency in the package.json file.
  "name": "forkify", to quit.
"version": "1.0.0",
  "description": "Forkify Project",
 "main": "index.js",
"scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
"author": "Sriram Chandrabhatta",
"license": "ISC"
Is this OK? (yes)
C:\Users\srira\Desktop\JavaScript\Modern-JS-ES6-NPM-Babel-Webpack\forkify project>dir
Volume in drive C has no label.
 Volume Serial Number is 261A-08AE
Directory of C:\Users\srira\Desktop\JavaScript\Modern-JS-ES6-NPM-Babel-Webpack\forkify_project
15-02-2020 12:05
                      <DTR>
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            12:05
                      <DIR>
15-02-2020
            09:19
                      <DIR>
                                      dist
15-02-2020
            12:05
                                  238 package.json
15-02-2020 09:21
                      <DIR>
                                      src
               1 File(s)
                                      238 bytes
               4 Dir(s) 157,325,471,744 bytes free
:\Users\srira\Desktop\JavaScript\Modern-JS-ES6-NPM-Babel-Webpack\forkify_project>
```

We can clearly see that package.json file has been created. We can also see the content of package.json file. We can see that the file reflects the data that we gave as input when creating the package.json file. We will get to know more about package.json file in-detail, a little bit later.

We will now install **Webpack** using NPM. To install Webpack, we use the following command: npm install webpack --save-dev in the terminal as shown below (we might see some warning(s), but that's not to fret about. If there are errors, then we need to run the command as administrator/ superuser).

```
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                                          packages from 203 contributors and audited 4227 packages in 40.247s
ages are looking for funding 
`npm fund` for details
```

In the command, npm install webpack --save-dev, "--save-dev" means that we save Webpack as Development Dependency. We can see that in our package.json file shown below, that "webpack" is saved in the package.json file inside the "devDependencies" field with its version number.

Users\srira\Desktop\JavaScript\Modern-JS-ES6-NPM-Babel-Webpack\forkify_project>_

```
{
 1
      "name": "forkify",
 2
      "version": "1.0.0",
      "description": "Forkify Project",
 4
      "main": "index.js",
 5
      "scripts": {
         "test": "echo \"Error: no test specified\" && exit 1"
 8
      "author": "Sriram Chandrabhatta",
9
      "license": "ISC",
10
      "devDependencies": {
11
         "webpack": "^4.41.6"
12
13
14
```

There are two type of Node.js packages. The first one's are libraries & frameworks, stuff like that, and the others are development tools. Libraries like React or jQuery they all are really dependencies, because we use the code from React, jQuery, etc, in our product/app. But something like Webpack is really just a development tool, and therefore, it's saved inside the package.json in the "devDependencies" field. Now, imagine if we wanted to use something like jQuery (which is an actual dependency from which we import actual code and use the code in our project), then we install it using the following command: npm install jquery --save. Note that in this command, we just used "--save" instead of "--save-dev", because jQuery is a library dependency, and not a development dependency. We can see see the command in action below.

```
C:\Users\srira\Desktop\JavaScript\Modern-JS-ES6-NPM-Babel-Webpack\forkify_project>npm install jquery --save
npm WARN forkify@1.0.0 No repository field.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.11 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.11: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
+ jquery@3.4.1
added 1 package from 1 contributor and audited 4228 packages in 6.924s

3 packages are looking for funding
run `npm fund` for details

found 0 vulnerabilities

C:\Users\srira\Desktop\JavaScript\Modern-JS-ES6-NPM-Babel-Webpack\forkify_project>_
```

Now we can see the contents of package.json below and see that "jquery" is inside the "dependencies" field as shown below, because jQuery is a library and not a tool.

```
1
      "name": "forkify",
 2
      "version": "1.0.0",
      "description": "Forkify Project",
 4
      "main": "index.js",
      "scripts": {
 6
         "test": "echo \"Error: no test specified\" && exit 1"
      "author": "Sriram Chandrabhatta",
 9
10
      "license": "ISC",
      "devDependencies": {
11
         "webpack": "^4.41.6"
12
13
      },
14
      "dependencies": {
         "jquery": "^3.4.1"
15
      }
16
17
```

Now, the <code>package.json</code> file has all the information regarding the dependencies, development dependencies, etc, in our project. Now that's very important, because if we want to move this project to another computer or work with another person on the same project, then everyone's on the same page by simply looking into the <code>package.json</code> file. Everyone will get to know the dependencies being used in the project just by having a glance in the <code>package.json</code> file. It is also important to create a <code>package.json</code> file because it allows us to install all of our dependencies automatically even if we don't have the <code>node_modules</code> directory in our project. The node_modules folder is where all our packages (dependencies or development dependencies) reside i.e., it will have all the dependencies for the dependencies that we installed in our project. For instance, Webpack and jQuery themselves have so many dependencies, so the node_modules folder also contains the dependencies of the dependencies we installed for our project.

Now, if we want to share our project to someone else, we need not share the node_modules folder. Because all the required details are there inside the package.json file. So anyone who's having the project files (without the node_modules folder) along with the package.json file, he/she can simply run npm install command, and all the required devDependencies and dependencies will be installed in the project folder in the node_modules folder. We will illustrate that in the screenshots below. We will delete the node_modules folder first, and then just type in npm install in the directory where our project files are (along with package.json file), and we will see that the node_modules folder will be created in our project's directory automatically, where all the dependencies requuired for the project, will reside.

```
Jsers\srira\Desktop\JavaScript\Modern-JS-ES6-NPM-Babel-Webpack\forkify project>din
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Volume Serial Number is 261A-08AE
 Directory of C:\Users\srira\Desktop\JavaScript\Modern-JS-ES6-NPM-Babel-Webpack\forkify_project
                                             dist
node_modules
15-02-2020 09:19
15-02-2020 12:45
                          <DIR>
             12:45
12:57
                                  124,290 package-lock.json
339 package.json
15-02-2020
15-02-2020
15-02-2020
                  <DIR>
             09:21
 ::\Users\srira\Desktop\JavaScript\Modern-JS-ES6-NPM-Babel-Webpack\forkify_project>rmdir /S node_modules
Hode_modules, Are you sure (Y/N)? Y
  \Users\srira\Desktop\JavaScript\Modern-JS-ES6-NPM-Babel-Webpack\forkify_project>dir
Volume in drive C has no label.
Volume Serial Number is 261A-08AE
 Directory of C:\Users\srira\Desktop\JavaScript\Modern-JS-ES6-NPM-Babel-Webpack\forkify_project
                          <DIR>
15-02-2020
15-02-2020
15-02-2020 09:19
15-02-2020 12:45
                                             dist
                          <DIR>
                                  124,290 package-lock.json
339 package.json
              12:57
                                        src
124,629 bytes
                  2 File(s)
                  4 Dir(s) 157,134,925,824 bytes free
C:\Users\srira\Desktop\JavaScript\Modern-JS-ES6-NPM-Babel-Webpack\forkify_project>npm install
           forkify@1.0.0 No repository field.

optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.11 (node_modules\fsevents):

notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.11: wanted {"os":"darwin", "arch":"any"} (current: {"os":"win32", "arch":"x64"})
 dded 323 packages from 198 contributors and audited 4228 packages in 23.253s
  packages are looking for funding
run `npm fund` for details
       vulnerabilities
```

```
Users\srira\Desktop\JavaScript\Modern-JS-ES6-NPM-Babel-Webpack\forkify_project>npm install
                              spiralDesktop(Javascript(Modern=35=350 NPH Dabel Neoport(10 N=1)_P 350 NPH Dabel Neoport(10 N=1)_P 350 NPH Dabel Neoport(10 N=1)_P 350 NPH Dabel Neoport(10 Neoport(1
   dded 323 packages from 198 contributors and audited 4228 packages in 23.253s
      packages are looking for funding
run `npm fund` for details
    ound 0 vulnerabilities
     :\Users\srira\Desktop\JavaScript\Modern-JS-ES6-NPM-Babel-Webpack\forkify_project>dir
  Volume in drive C has no label.
Volume Serial Number is 261A-08AE
    Directory of C:\Users\srira\Desktop\JavaScript\Modern-JS-ES6-NPM-Babel-Webpack\forkify_project
 15-02-2020 13:15
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                                                                      <DIR>
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339 package.json
15-02-2020
                                      12:45
15-02-2020
                                                  :\Users\srira\Desktop\JavaScript\Modern-JS-ES6-NPM-Babel-Webpack\forkify_project>
```

One last thing is that we can also uninstall the packages. In our project we don't really have a need for jQuery, so we go ahead and uninstall it as shown in the screenshot below, using the following command: npm uninstall jquery --save

```
C:\Users\srira\Desktop\JavaScript\Modern-JS-ES6-NPM-Babel-Webpack\forkify_project>npm uninstall jquery --save
npm WARN
npm WARN
npm varn
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npm warn
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n
```

We can see that the package.json reflects that "jquery" has been uninstalled, as it is not present inside the "dependencies" field of the package.json file as shown below.

```
1
      "name": "forkify",
 2
      "version": "1.0.0",
 3
      "description": "Forkify Project",
      "main": "index.js",
 5
      "scripts": {
         "test": "echo \"Error: no test specified\" && exit 1"
8
      },
      "author": "Sriram Chandrabhatta",
      "license": "ISC",
10
      "devDependencies": {
11
        "webpack": "^4.41.6"
12
13
      },
      "dependencies": {}
14
15
```

A final thing to know is, the packages that we installed till now (i.e., Webpack and jQuery using the --save-dev and --save respectively) are locally installed. It means that they are installed only for this particular project. But we can also install packages globally, so that those packages will be accessible everywhere in our computer. Right now, the "webpack" devDependency only works inside the project, but if we want to install it globally and access it everywhere, we could also do that .

We will now see how we can install packages globally. We will install the **Live Server** package globally using the following command: npm install live-server --global (instead of --global we could've als used -g). Live Server allows us to create a simple and local web server to serve some static websites.

```
:\Users\srira\Desktop\JavaScript\Modern-JS-ES6-NPM-Babel-Webpack\forkify_project>npm install live-server --global

| MARN | deprecated opn@6.0.0: The package has been renamed to open
| Warn | deprecated opn@6.0.0: The package has been renamed to open
| Visers\srira\AppData\Roaming\npm\live-server.js
| MARN | optional SKIPPING OPTIONAL DEPENDENCY: fsevents@^1.2.7 (node_modules\live-server\node_modules\chokidar\node_modules\fsevents):
| MARN | notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.11: wanted {"os":"darwin", "arch":"any"} (current: {"os":"win32", "arch":"x6
                    MARN optional SKIPPING OPTIONAL DEPENDENCY: abbrev@1.1.1 (node_modules\live-server\node_modules\fsevents\node_modules\abbrev):

MARN encent SKIPPING OPTIONAL DEPENDENCY: ENCENT: no such file or directory, rename 'C:\Users\srira\AppData\Roaming\npm\node_modules\live-server\node_modules\fsevents\node_modules\abbrev.DELETE'

MARN optional SKIPPING OPTIONAL DEPENDENCY: ansi-regex@2.1.1 (node_modules\live-server\node_modules\fsevents\node_modules\ansi-regex):

MARN optional SKIPPING OPTIONAL DEPENDENCY: ENCENT: no such file or directory, rename 'C:\Users\srira\AppData\Roaming\npm\node_modules\live-server\node_modules\fsevents\node_modules\ansi-regex):

MARN optional SKIPPING OPTIONAL DEPENDENCY: aproba@1.2.0 (node_modules\live-server\node_modules\fsevents\node_modules\fsevents\node_modules\ansi-regex.DELETE'

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                                                                                                           SKIPPING OPTIONAL DEPENDENCY: chownr@1.1.3 (node_modules\live-server\node_modules\fsevents\node_modules\chownr)
                       WARN encent SKIPPING OPTIONAL DEPENDENCY: EndoNnie in osuch file or directory, rename 'C:\Users\sriva\App\anding\nome_modules\chownnig\nome_modules\live-server\node_modules\fisevents\node_modules\live-server\node_modules\fisevents\node_modules\live-server\node_modules\fisevents\node_modules\chownr'. > 'C:\Users\sriva\App\anding\nome\node_modules\chownr'. DELETE'
WARN optional SKIPPING OPTIONAL DEPENDENCY: code-point-atgl.1.0 (node_modules\live-server\node_modules\fisevents\node_modules\code-point-atgl.
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                                                                                               il SKIPPING OPTIONAL DEPENDENCY: concat-map@0.0.1 (node_modules\live-server\node_modules\fsevents\node_modules\concat-map):
SKIPPING OPTIONAL DEPENDENCY: ENOENT: no such file or directory, rename 'C:\Users\srira\AppData\Roaming\npm\node_modules\live-server\node_mo
de_modules\concat-map' -> 'C:\Users\srira\AppData\Roaming\npm\node_modules\live-server\node_modules\fsevents\node_modules\.concat-map.DELETE
 les\fsevents\node_modules\concat-map'
                                                                                                           SKIPPING OPTIONAL DEPENDENCY: console-control-strings@1.1.0 (node_modules\live-server\node_modules\fsevents\node_modules\console-control-str
 ings):
nom MARN encent SKIPPING OPTIONAL DEPENDENCY: ENCENT: no such file or directory, rename 'C:\Users\srira\AppData\Roaming\npm\node_modules\live-server\node_modules\live-server\node_modules\live-server\node_modules\live-server\node_modules\fsevents\node_modules\.console
     control-strings.DELETE'
     CONTOI-STINGS.DELETE
pm MARN optional SKIPPING OPTIONAL DEPENDENCY: core-util-is@1.0.2 (node_modules\live-server\node_modules\fsevents\node_modules\core-util-is):
pm MARN encent SKIPPING OPTIONAL DEPENDENCY: ENOENT: no such file or directory, rename 'C:\Users\srira\AppData\Roaming\npm\node_modules\live-server\node_modu
es\fsevents\node_modules\core-util-is' -> 'C:\Users\srira\AppData\Roaming\npm\node_modules\live-server\node_modules\fsevents\node_modules\.core-util-is.DELET
                                                                                               il SKIPPING OPTIONAL DEPENDENCY: deep-extend@0.6.0 (node_modules\live-server\node_modules\fsevents\node_modules\deep-extend):
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                                                                                                             SKIPPING\ OPTIONAL\ DEPENDENCY:\ safer-buffer@2.1.2\ (node\_modules \live-server\node\_modules \fsevents\node\_modules \server)
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de_modules\safer-buffer' -> 'C:\Users\srira\AppData\Roaming\npm\node_modules\live-server\node_modules\fsevents\node_modules\.safer-buffer.DELET
mm WARN optional SKIPPING OPTIONAL DEPENDENCY: sax@1.2.4 (node_modules\live-server\node_modules\fsevents\node_modules\sax):

npm WARN encent SKIPPING OPTIONAL DEPENDENCY: ENCENT: no such file or directory, rename 'C:\Users\srira\AppData\Roaming\npm\node_modules\live-server\node_modules\fsevents\node_modules\sax' -> 'C:\Users\srira\AppData\Roaming\npm\node_modules\live-server\node_modules\fsevents\node_modules\sax.DELETE'

npm WARN optional SKIPPING OPTIONAL DEPENDENCY: semver@5.7.1 (node_modules\live-server\node_modules\fsevents\node_modules\semver):

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                    MARN optional SKIPPING OPTIONAL DEPENDENCY: set-blocking@2.0.0 (node_modules\live-server\node_modules\fsevents\node_modules\set-blocking):

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    pm MARN optional SKIPPING OPTIONAL DEPENDENCY: signal-exit@3.0.2 (node_modules\live-server\node_modules\fsevents\node_modules\signal-exit):

pm MARN encent SKIPPING OPTIONAL DEPENDENCY: ENOENT: no such file or directory, rename 'C:\Users\srira\AppData\Roaming\npm\node_modules\live-server\node_modu

es\fsevents\node_modules\signal-exit' -> 'C:\Users\srira\AppData\Roaming\npm\node_modules\live-server\node_modules\fsevents\node_modules\.signal-exit.DELETE'
       pm MARN optional SKIPPING OPTIONAL DEPENDENCY: strip-json-comments@2.0.1 (node_modules\live-server\node_modules\fsevents\node_modules\strip-json-comments):
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fsevents\node_modules\util-deprecate' -> 'C:\Users\srira\AppData\Roaming\npm\node_modules\live-server\node_modules\fsevents\node_modules\fsevents\node_modules\fsevents\node_modules\fsevents\node_modules\fsevents\node_modules\fsevents\node_modules\fsevents\node_modules\fsevents\node_modules\fsevents\node_modules\fsevents\node_modules\fsevents\node_modules\fsevents\node_modules\fsevents\node_modules\fsevents\node_modules\fsevents\node_modules\fsevents\node_modules\fsevents\node_modules\fsevents\node_modules\fsevents\fsevents\fsevents\node_modules\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents\fsevents
                    MARN optional SKIPPING OPTIONAL DEPENDENCY: wrappy@1.0.2 (node_modules\live-server\node_modules\fsevents\node_modules\wrappy):

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  + live-server@1.2.1
added 191 packages from 149 contributors in 18.665s
        :\Users\srira\Desktop\JavaScript\Modern-JS-ES6-NPM-Babel-Webpack\forkify_project>_
```

Now we can run the command **live-server** from anywhere in the system, and in the respective folder, a live local webserver is created on the loopback address (127.0.0.1) on port 8080 as shown below.

