

Lesson 101. APPLY PATCH in javascript.

1 first when you run ng serve, you get the error below

```
ERROR in ./node_modules/@auth0/angular-jwt/fesm2015/auth0-angular-jwt.js 128:168-186
"export 'ɵɵFactoryTarget' (imported as 'i0') was not found in '@angular/core'
ERROR in ./node_modules/@auth0/angular-jwt/fesm2015/auth0-angular-jwt.js 220:214-232
"export 'ɵɵFactoryTarget' (imported as 'i0') was not found in '@angular/core'
ERROR in ./node_modules/@auth0/angular-jwt/fesm2015/auth0-angular-jwt.js 256:184-202
"export 'ɵɵFactoryTarget' (imported as 'i0') was not found in '@angular/core'
ERROR in ./node_modules/@auth0/angular-jwt/fesm2015/auth0-angular-jwt.js 130:0-27
"export 'ɵɵngDeclareClassMetadata' (imported as 'i0') was not found in '@angular/core'
ERROR in ./node_modules/@auth0/angular-jwt/fesm2015/auth0-angular-jwt.js 222:0-27
"export 'ɵɵngDeclareClassMetadata' (imported as 'i0') was not found in '@angular/core'
ERROR in ./node_modules/@auth0/angular-jwt/fesm2015/auth0-angular-jwt.js 259:0-27
"export 'ɵɵngDeclareClassMetadata' (imported as 'i0') was not found in '@angular/core'
ERROR in ./node_modules/@auth0/angular-jwt/fesm2015/auth0-angular-jwt.js 128:24-45
"export 'ɵɵngDeclareFactory' (imported as 'i0') was not found in '@angular/core'
ERROR in ./node_modules/@auth0/angular-jwt/fesm2015/auth0-angular-jwt.js 220:22-43
"export 'ɵɵngDeclareFactory' (imported as 'i0') was not found in '@angular/core'
ERROR in ./node_modules/@auth0/angular-jwt/fesm2015/auth0-angular-jwt.js 256:17-38
"export 'ɵɵngDeclareFactory' (imported as 'i0') was not found in '@angular/core'
ERROR in ./node_modules/@auth0/angular-jwt/fesm2015/auth0-angular-jwt.js 129:25-49
"export 'ɵɵngDeclareInjectable' (imported as 'i0') was not found in '@angular/core'
ERROR in ./node_modules/@auth0/angular-jwt/fesm2015/auth0-angular-jwt.js 221:23-47
"export 'ɵɵngDeclareInjectable' (imported as 'i0') was not found in '@angular/core'
ERROR in ./node_modules/@auth0/angular-jwt/fesm2015/auth0-angular-jwt.js 258:17-39
"export 'ɵɵngDeclareInjector' (imported as 'i0') was not found in '@angular/core'
ERROR in ./node_modules/@auth0/angular-jwt/fesm2015/auth0-angular-jwt.js 257:17-39
"export 'ɵɵngDeclareNgModule' (imported as 'i0') was not found in '@angular/core'
** Angular Live Development Server is listening on localhost:4200, open your browser on
http://localhost:4200/ **
「wdm」: Failed to compile.
```

Therefore visit the file directories in the node module and uncomment all those classes, having done that, get the library name called @auth0/angular-jwt at the package.json.

Proceed to your package.json file, and in your script section, add `"postinstall": "patch-package"`



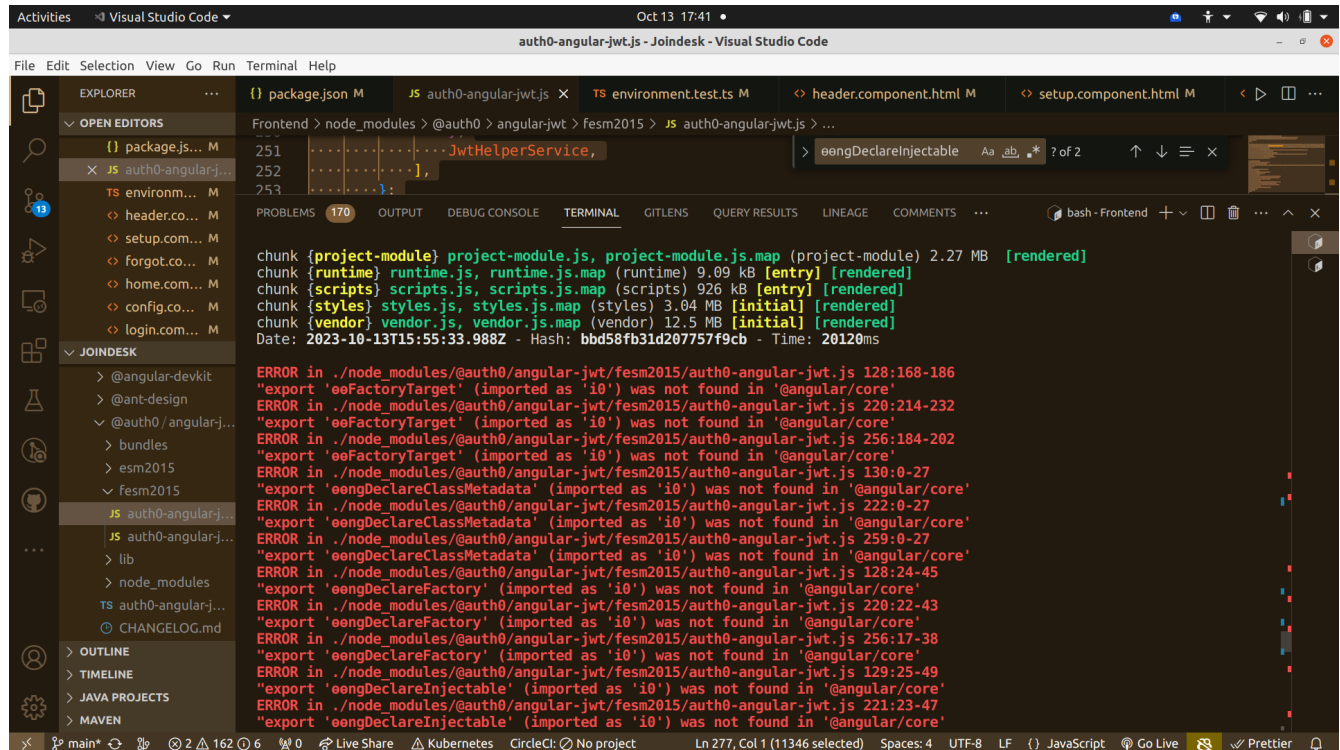
I have added the screenshot below

Now copy all the contents in Frontend/node_modules/@auth0/angular-jwt/fesm2015/auth0-angular-jwt.js should you lose the file.

Now proceed to applying the patch in your frontend directory using either npm or yarn

I used npx. Run `npx patch-package @auth0/angular-jwt` to apply patch, all screenshots of the error before and after are visible now.

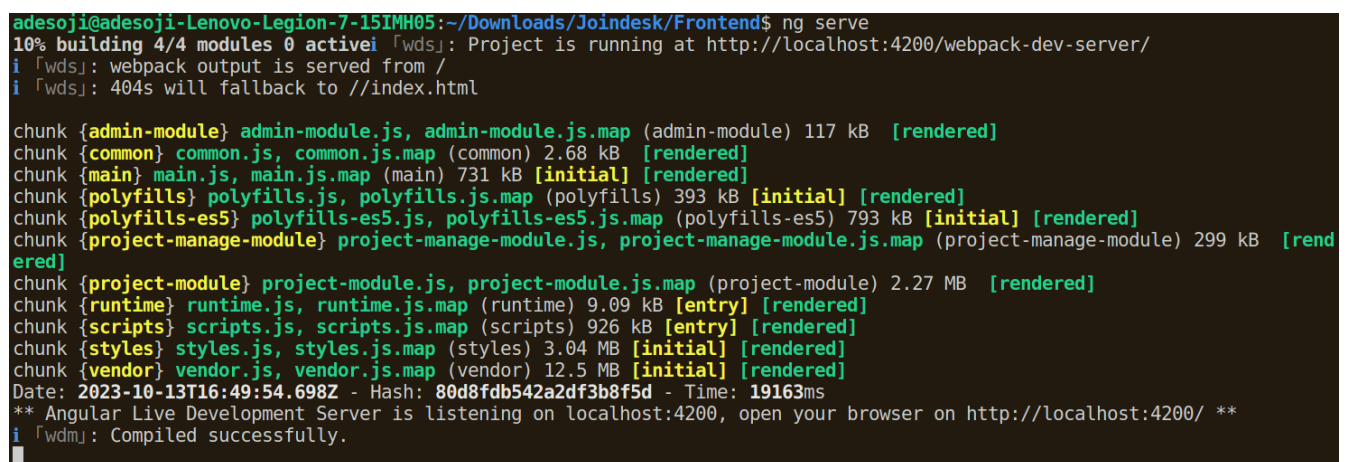
Screenshots showing initial error ,patch-package addition to package.json and patch package successful.



```
chunk {project-module} project-module.js, project-module.js.map (project-module) 2.27 MB [rendered]
chunk {runtime} runtime.js, runtime.js.map (runtime) 9.09 kB [entry] [rendered]
chunk {scripts} scripts.js, scripts.js.map (scripts) 926 kB [entry] [rendered]
chunk {styles} styles.js, styles.js.map (styles) 3.04 MB [initial] [rendered]
chunk {vendor} vendor.js, vendor.js.map (vendor) 12.5 MB [initial] [rendered]
Date: 2023-10-13T15:55:33.988Z - Hash: bbd58fb31d207757f9cb - Time: 20120ms

ERROR in ./node_modules/@auth0/angular-jwt/fesm2015/auth0-angular-jwt.js 128:168-186
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"export 'ɵngDeclareInjectable' (imported as 'i0') was not found in '@angular/core'
```

Error

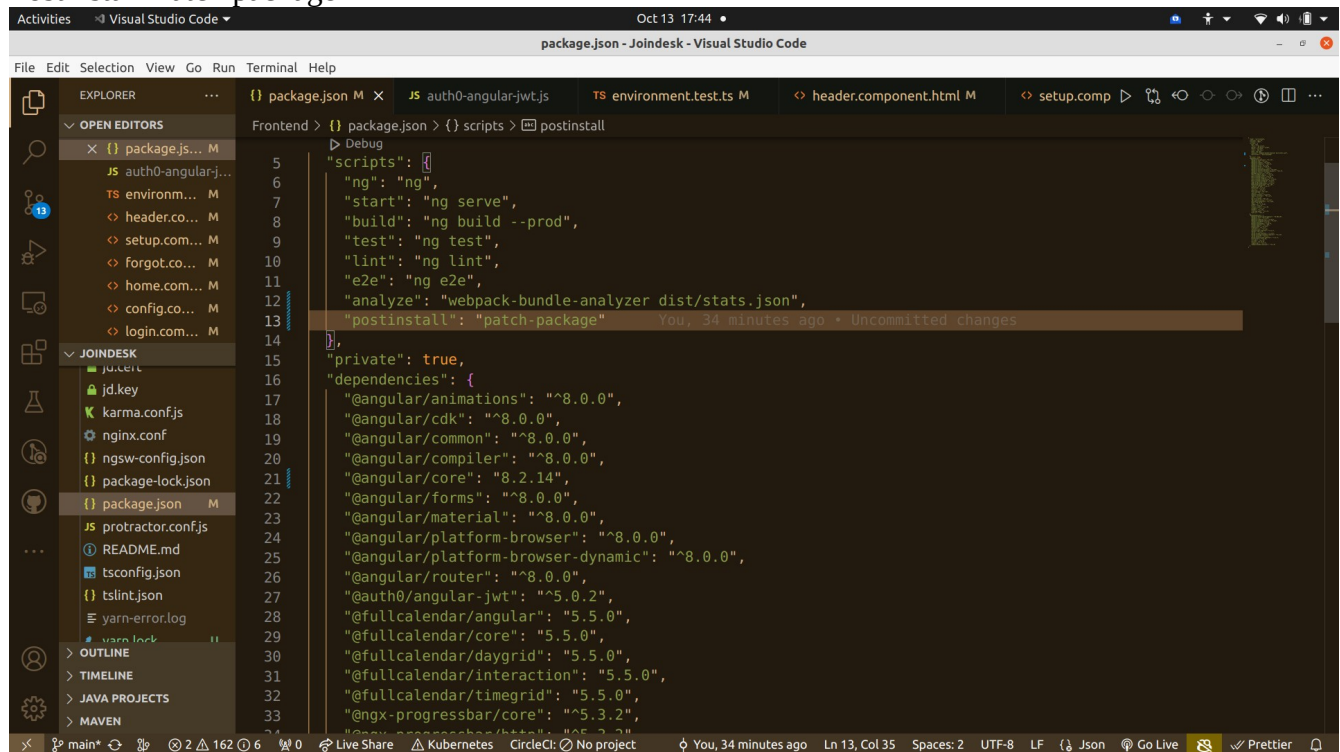


```
adesoji@adesoji-Lenovo-Legion-7-15IMH05:~/Downloads/Joindesk/Frontend$ ng serve
10% building 4/4 modules 0 active i「wds」: Project is running at http://localhost:4200/webpack-dev-server/
i「wds」: webpack output is served from /
i「wds」: 404s will fallback to //index.html

chunk {admin-module} admin-module.js, admin-module.js.map (admin-module) 117 kB [rendered]
chunk {common} common.js, common.js.map (common) 2.68 kB [rendered]
chunk {main} main.js, main.js.map (main) 731 kB [initial] [rendered]
chunk {polyfills} polyfills.js, polyfills.js.map (polyfills) 393 kB [initial] [rendered]
chunk {polyfills-es5} polyfills-es5.js, polyfills-es5.js.map (polyfills-es5) 793 kB [initial] [rendered]
chunk {project-manage-module} project-manage-module.js, project-manage-module.js.map (project-manage-module) 299 kB [rendered]
chunk {project-module} project-module.js, project-module.js.map (project-module) 2.27 MB [rendered]
chunk {runtime} runtime.js, runtime.js.map (runtime) 9.09 kB [entry] [rendered]
chunk {scripts} scripts.js, scripts.js.map (scripts) 926 kB [entry] [rendered]
chunk {styles} styles.js, styles.js.map (styles) 3.04 MB [initial] [rendered]
chunk {vendor} vendor.js, vendor.js.map (vendor) 12.5 MB [initial] [rendered]
Date: 2023-10-13T16:49:54.698Z - Hash: 80d8fdb542df3b8f5d - Time: 19163ms
** Angular Live Development Server is listening on localhost:4200, open your browser on http://localhost:4200/ **
i「wds」: Compiled successfully.
```

ng serve running successfully

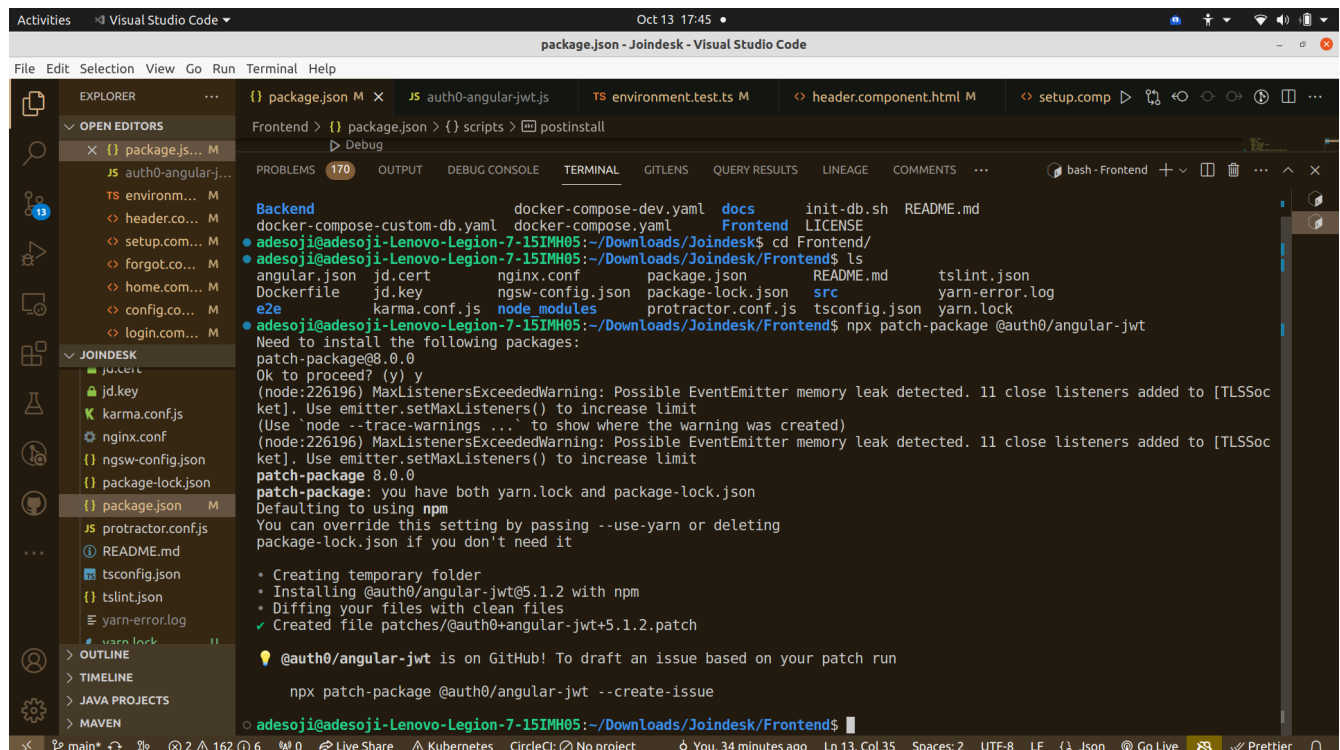
Postinstall-Patch package



The screenshot shows the Visual Studio Code interface with the `package.json` file open. The `scripts` section contains the following configuration:

```
"scripts": {
  "ng": "ng",
  "start": "ng serve",
  "build": "ng build --prod",
  "test": "ng test",
  "lint": "ng lint",
  "e2e": "ng e2e",
  "analyze": "webpack-bundle-analyzer dist/stats.json",
  "postinstall": "patch-package"
},
```

The `dependencies` section lists various Angular and other dependencies. The status bar at the bottom indicates "You, 34 minutes ago" and "Uncommitted changes".



The screenshot shows the Visual Studio Code interface with the terminal open. The terminal output displays the execution of the `patch-package` command, which successfully creates a patch file for the `@auth0/angular-jwt` package. The output includes the following text:

```
Backend docker-compose-custom-db.yaml docs init-db.sh README.md
docker-compose-dev.yaml docker-compose.yaml Frontend LICENSE
adesoji@adesoji-Lenovo-Legion-7-15IMH05:~/Downloads/Joindesk$ cd Frontend/
adesoji@adesoji-Lenovo-Legion-7-15IMH05:~/Downloads/Joindesk/Frontend$ ls
angular.json  jd.cert  nginx.conf  package.json  README.md  tslint.json
Dockerfile    jd.key  ngsw-config.json  package-lock.json  src  yarn-error.log
e2e           karma.conf.js  node_modules  protractor.conf.js  tsconfig.json  yarn.lock
adesoji@adesoji-Lenovo-Legion-7-15IMH05:~/Downloads/Joindesk/Frontend$ npx patch-package @auth0/angular-jwt
Need to install the following packages:
patch-package@8.0.0
Ok to proceed? (y) y
(node:226196) MaxListenersExceededWarning: Possible EventEmitter memory leak detected. 11 close listeners added to [TLSSocket]. Use emitter.setMaxListeners() to increase limit
(node:226196) MaxListenersExceededWarning: Possible EventEmitter memory leak detected. 11 close listeners added to [TLSSocket]. Use emitter.setMaxListeners() to increase limit
patch-package 8.0.0
patch-package: you have both yarn.lock and package-lock.json
Defaulting to using npm
You can override this setting by passing --use-yarn or deleting
package-lock.json if you don't need it

• Creating temporary folder
• Installing @auth0/angular-jwt@5.1.2 with npm
• Diffing your files with clean files
✓ Created file patches/@auth0+angular-jwt@5.1.2.patch

💡 @auth0/angular-jwt is on GitHub! To draft an issue based on your patch run

npx patch-package @auth0/angular-jwt --create-issue
adesoji@adesoji-Lenovo-Legion-7-15IMH05:~/Downloads/Joindesk/Frontend$
```

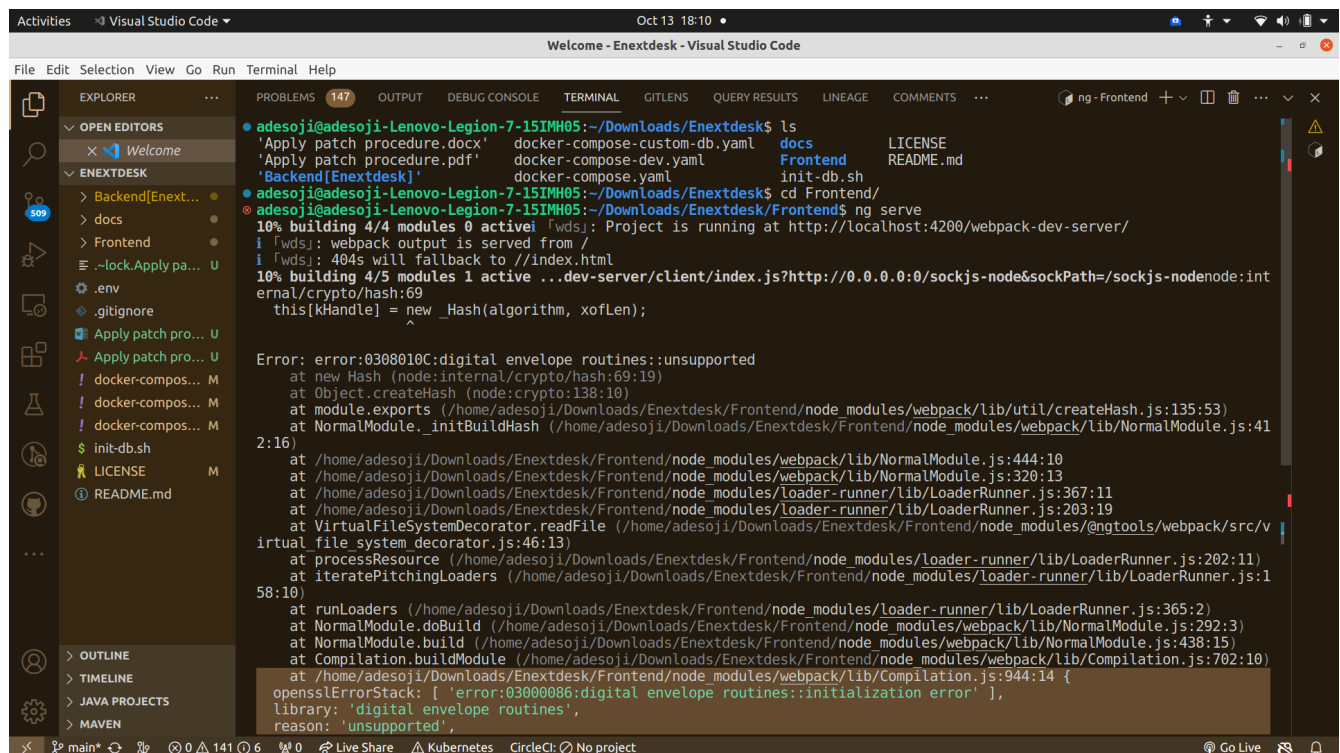
patch package successful

having done these above, you will see another file generated called patches at Frontend/patches path.

For more information, visit <https://www.npmjs.com/package/patch-package>

Furthermore, when you run ng serve and you see the error : at
/home/adesoji/Downloads/Enextdesk/Frontend/node_modules/webpack/lib/Compilation.js:944:14 {
 opensslErrorStack: ['error:03000086:digital envelope routines::initialization error'],
 library: 'digital envelope routines',
 reason: 'unsupported',
 code: 'ERR_OSSL_EVP_UNSUPPORTED'
}

Node.js v20.4.0 below in the screenshot,



```
Oct 13 18:10 • Welcome - Enextdesk - Visual Studio Code
File Edit Selection View Go Run Terminal Help
EXPLORER
  OPEN EDITORS
    Welcome
  ENEXTDESK
    Backend[Enext...
    docs
    Frontend
    .lock.Apply pa... U
    .env
    .gitignore
    Apply patch pro... U
    Apply patch pro... U
    docker-compos... M
    docker-compos... M
    init-db.sh
    LICENSE
    README.md
  ...
  OUTLINE
  TIMELINE
  JAVA PROJECTS
  MAVEN
TERMINAL
  adesoji@adesoji-Lenovo-Legion-7-15IMH05:~/Downloads/Enextdesk$ ls
  'Apply patch procedure.docx'  docker-compose-custom-db.yaml  docs  LICENSE
  'Apply patch procedure.pdf'  docker-compose-dev.yaml        Frontend  README.md
  'Backend[Enextdesk]'         docker-compose.yaml            init-db.sh
  adesoji@adesoji-Lenovo-Legion-7-15IMH05:~/Downloads/Enextdesk$ cd Frontend/
  adesoji@adesoji-Lenovo-Legion-7-15IMH05:~/Downloads/Enextdesk/Frontend$ ng serve
  10% building 4/4 modules 0 active i [wds]: Project is running at http://localhost:4200/webpack-dev-server/
  i [wds]: webpack output is served from /
  i [wds]: 404s will fallback to //index.html
  10% building 4/5 modules 1 active ...dev-server/client/index.js?http://0.0.0.0:0/sockjs-node&sockPath=/sockjs-nodenode:internal/crypto/hash:69
    this[kHandle] = new _Hash(algorithm, xofLen);
Error: error:03000086:digital envelope routines::unsupported
    at new Hash (node:internal/crypto/hash:69:19)
    at Object.createHash (node:crypto:138:10)
    at module.exports (/home/adesoji/Downloads/Enextdesk/Frontend/node_modules/webpack/lib/util/createHash.js:135:53)
    at NormalModule._initBuildHash (/home/adesoji/Downloads/Enextdesk/Frontend/node_modules/webpack/lib/NormalModule.js:412:16)
    at /home/adesoji/Downloads/Enextdesk/Frontend/node_modules/webpack/lib/NormalModule.js:444:10
    at /home/adesoji/Downloads/Enextdesk/Frontend/node_modules/webpack/lib/NormalModule.js:320:13
    at /home/adesoji/Downloads/Enextdesk/Frontend/node_modules/loader-runner/lib/LoaderRunner.js:367:11
    at /home/adesoji/Downloads/Enextdesk/Frontend/node_modules/loader-runner/lib/LoaderRunner.js:203:19
    at VirtualFileSystemDecorator.readFile (/home/adesoji/Downloads/Enextdesk/Frontend/node_modules/@ngtools/webpack/src/virtual-file-system-decorator.js:46:13)
    at processResource (/home/adesoji/Downloads/Enextdesk/Frontend/node_modules/loader-runner/lib/LoaderRunner.js:202:11)
    at iteratePitchingLoaders (/home/adesoji/Downloads/Enextdesk/Frontend/node_modules/loader-runner/lib/LoaderRunner.js:158:10)
    at runLoaders (/home/adesoji/Downloads/Enextdesk/Frontend/node_modules/loader-runner/lib/LoaderRunner.js:365:2)
    at NormalModule.doBuild (/home/adesoji/Downloads/Enextdesk/Frontend/node_modules/webpack/lib/NormalModule.js:292:3)
    at NormalModule.build (/home/adesoji/Downloads/Enextdesk/Frontend/node_modules/webpack/lib/NormalModule.js:438:15)
    at Compilation.buildModule (/home/adesoji/Downloads/Enextdesk/Frontend/node_modules/webpack/lib/Compilation.js:702:10)
    at /home/adesoji/Downloads/Enextdesk/Frontend/node_modules/webpack/lib/Compilation.js:944:14 {
  opensslErrorStack: [ 'error:03000086:digital envelope routines::initialization error' ],
  library: 'digital envelope routines',
  reason: 'unsupported',
}
```

just run export NODE_OPTIONS=--openssl-legacy-provider and run ng serve again.