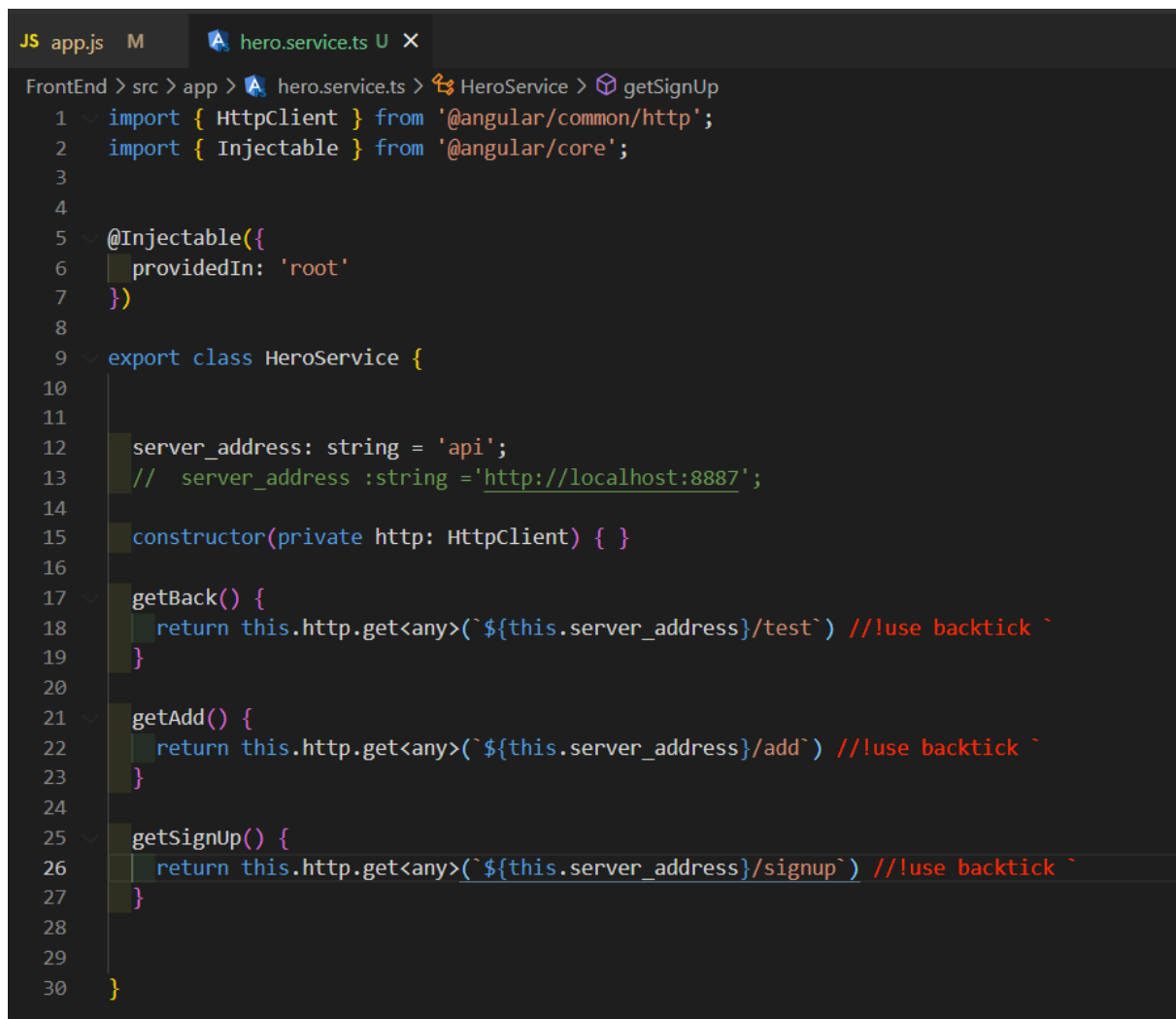


Heroku Deployment-MEAN Stack

I. Setting up your Front-end :

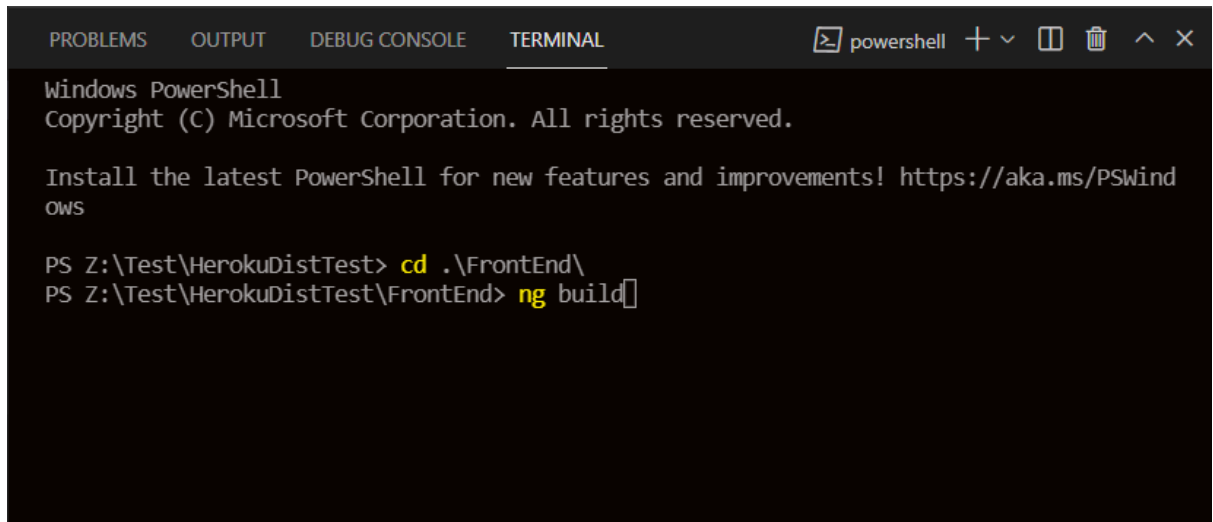
1. Change the address of backend server in the service file as follows:
 - Earlier it was “[http://local host:<your-port-number>](http://localhost:8887) “. Change it into “api”.
 - Caution: use the symbol ` which is known as backquote/backtick/grave accent



```
JS app.js M  hero.service.ts U X
FrontEnd > src > app > hero.service.ts > HeroService > getSignUp
1  import { HttpClient } from '@angular/common/http';
2  import { Injectable } from '@angular/core';
3
4
5  @Injectable({
6    providedIn: 'root'
7  })
8
9  export class HeroService {
10
11
12    server_address: string = 'api';
13    // server_address :string = 'http://localhost:8887';
14
15    constructor(private http: HttpClient) { }
16
17    getBack() {
18      return this.http.get<any>(`${this.server_address}/test`) //!use backtick `
19    }
20
21    getAdd() {
22      return this.http.get<any>(`${this.server_address}/add`) //!use backtick `
23    }
24
25    getSignUp() {
26      return this.http.get<any>(`${this.server_address}/signup`) //!use backtick `
27    }
28
29
30  }
```

2. In your terminal (Front End Directory) ,compile and build your angular frontend project using the following command. This may take few minutes.

```
ng build
```



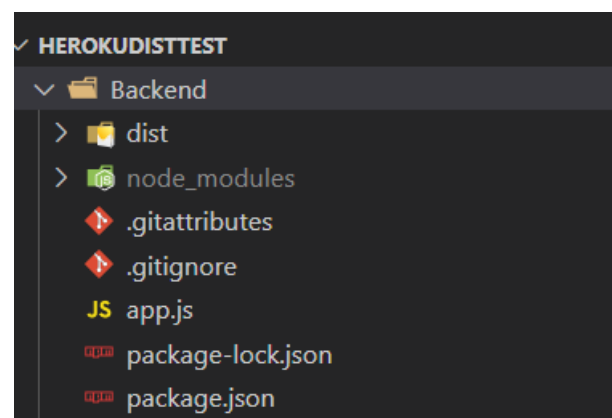
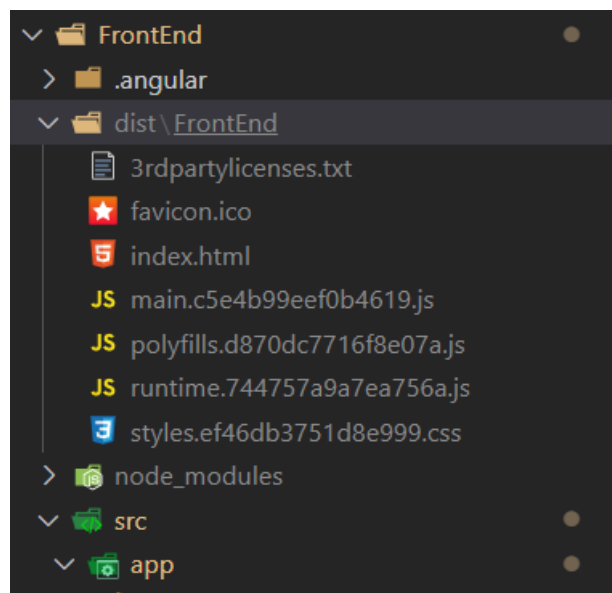
```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL powershell + - [ ] [X] ^ X
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS Z:\Test\HerokuDistTest> cd .\FrontEnd\
PS Z:\Test\HerokuDistTest\FrontEnd> ng build
```

3. Upon completion , a “dist” folder with *<the name of your project>* is created inside your project directory .

a) Copy the dist folder and paste it in the Backend Folder



II. Setting up your Back-end :

1. After copying dist folder from Frontend-folder to Backend-folder, in the app.js file add the following codes:

- `const path = require('path');`
- `app.use(express.static('./dist/<folder-name inside dist>'));`
- `app.get('/*', function(req, res) {
 res.sendFile(path.join(__dirname + '/dist//<folder-name inside dist>/index.html'));
});`

NB: in this case "folder-name inside dist" is FrontEnd

```
const path = require('path'); /* The path module provides utilities for working
                               with file and directory paths.

app.use(express.static('./dist/FrontEnd')); /*To serve static files such as images, CSS files,
                                             /* and JavaScript files, use the express.static built-in
                                             /*middleware function in Express.

//! <----- All your routes should be included here----->

app.get('/*', function (req, res) { /* Primary
    res.sendFile(path.join(__dirname + '/dist/FrontEnd/index.html')); /*?using path module here.
    /*wait for a request to any path and redirect all of the requests to index.html
    /*! Keep this route at last among other routes
});
```

2. Minor changes in the routes address

- Add `"/api"` before all router except Primary router as shown below

```
#!/ <----- All your routes should be included here----->

app.get("/api/test", function (req, res) { /*! add '/api' before all route address
  console.log("entered inside api/test")
  res.send({ status: true, message: "Hello" })
});
app.post("/api/add", function (req, res) { /*! '/add' changes to '/api/add'
  console.log("entered inside api/test")
  res.send({ status: true, message: "Hello" })
});
app.post("/api/signup", function (req, res) { /*! /signup changes to '/api/signup'
  console.log("entered inside api/test")
  res.send({ status: true, message: "Hello" })
});

#!/ <----- All your custom made routes should be included above----->

app.get('/*', function (req, res) { /*! Primary . No change in route address
  res.sendFile(path.join(__dirname + '/dist/FrontEnd/index.html')); /*using path module here.
  /*wait for a request to any path and redirect all of the requests to index.html
  /*! Keep this route at last among other routes
});
```

3. In the package.json file of Backend-End Folder, add the following code inside the "scripts":{ }

```
"start": "node app.js",
```

```
Backend > package.json > {} scripts
1  {
2    "name": "backend",
3    "version": "1.0.0",
4    "description": "",
5    "main": "index.js",
6    "scripts": {
7      "start": "node app.js", // add here
8      "test": "echo \"Error: no test specified\" && exit 1"
9    },
10   "author": "",
11   "license": "ISC",
12   "dependencies": {
13     "cors": "^2.8.5",
14     "express": "^4.17.1",
15     "nodemon": "^2.0.15",
16     "path": "^0.12.7"
17   }
18 }
19
```

4. Save it . Add the backend folder as a new repository in Github. (Make sure you have gitignored nodemodules)

dist/FrontEnd	csac	1 hour ago
.gitattributes	Initial commit	2 hours ago
.gitignore	Initial commit	2 hours ago
app.js	Initial commit	2 hours ago
package-lock.json	Initial commit	2 hours ago
package.json	Initial commit	2 hours ago

5. In the Heroku app, create a new app. Integrate it with your GitHub MEAN repository , you just created.
6. Deploy the project
7. If you find any error, use Heroku CLI to find where the error is .

Reference : <https://www.youtube.com/watch?v=U350rWtxGwg>