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#### STEP 1: Software download and installation

- Download and install nodejs for your OS: https://nodejs.org/en/download/
- 2. Check if node installed by opening a command prompt and type in:

```
node -v
npm -v
```

Versions may vary

```
[(base) Manishs-MacBook-Pro:~ Shalini$ node -v
v17.5.0
[(base) Manishs-MacBook-Pro:~ Shalini$ npm -v
8.6.0
```

- 3. Download and install VSCode for your OS : <a href="https://code.visualstudio.com/download">https://code.visualstudio.com/download</a>
- 4. Create a folder angularws on your desktop
- 5. To install latest angular-cli globally on your system execute below command: npm i -g @angular/cli
- 6. To install specific angular-cli version locally for your project, execute below command from within the angularws folder created in step 4:

```
npm i @angular/cli@<version number>
```

You can get version list from below link <a href="https://www.npmjs.com/package/@angular/cli?activeTab=versions">https://www.npmjs.com/package/@angular/cli?activeTab=versions</a>

#### STEP 2: Create angular project

- 1. Open VSCode and click on File -> Open Folder -> Choose angularws and click Open
- To create angular project execute below command from within the angularws folder ng new angulardemo

See the screenshot for your reference to select the options on the integrated terminal

Say Yes for routing
Just hit enter for the default CSS styles

3. After successful installation of packages, terminal should show below output:

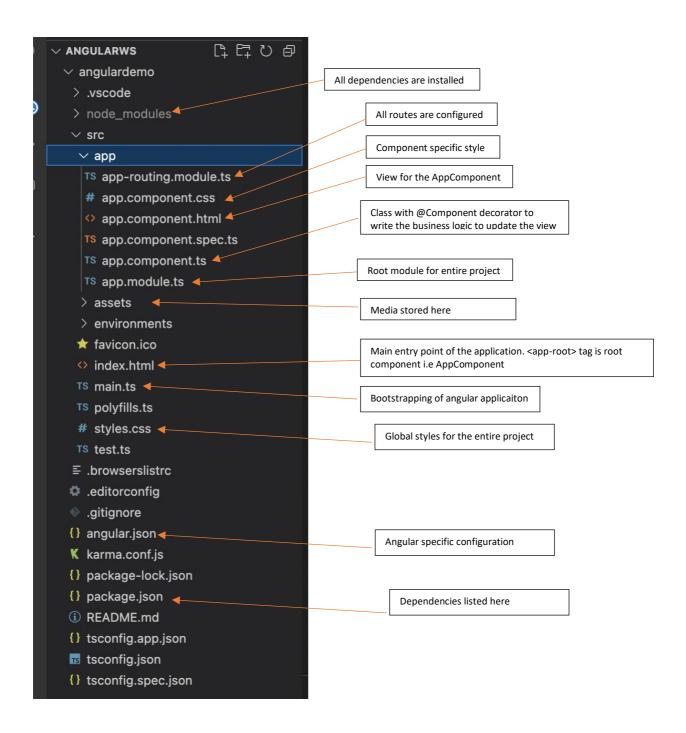
```
CREATE angulardemo/src/app/app.component.ts (215 bytes)

Packages installed successfully.

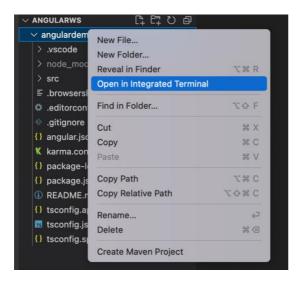
Directory is already under version control. Skipping initialization of git.

You have new mail in /var/mail/Shalini
(base) Manishs-MacBook-Pro:angularws Shalini$
```

4. Once the project is created, folder should look as follows:

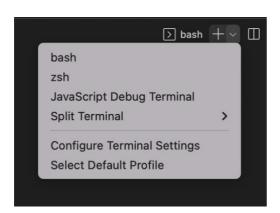


5. To start the server and build the angular application open terminal in VsCode. On the VScode, highlight project, right click and select Open in Integrated Terminal or command prompt as shown below

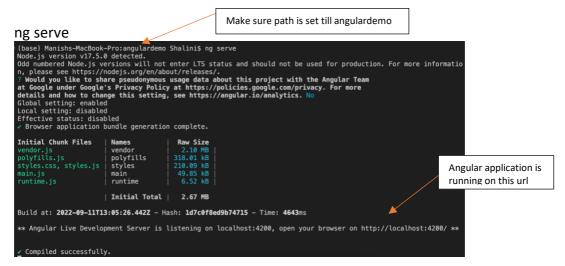


6. The terminal will be opened in the VsCode.

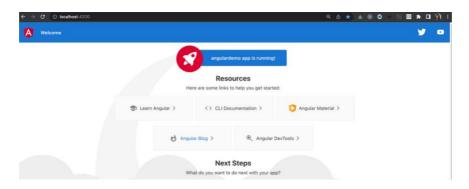
[WINDOWS USERS PLEASE SELECT CMD FROM THE DROPDOWN OF TERMINAL ON THE RIGHT AS SHOWN BELOW ]. INSTEAD OF zsh, windows will have command prompt



7. Once on the terminal and the path should be angulardemo [ your project folder ], execute below command



8. Open browser of your choice and type in <a href="http://localhost:4200">http://localhost:4200</a> in the address bar. Output should be as seen below:



9. Add bootsrap css and js libraries in index.html file

#### k

href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-

EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC" crossorigin="anonymous">

#### <script

src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js" integrity="sha384-

MrcW6ZMFYIzcLA8NI+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtlaxVXM" crossorigin="anonymous"></script>

#### STEP 3: Understand angular syntax:

 Delete everything in app.component.html file and add the following: <h1>{{title}}</h1>
 Should see following output:



### angulardemo

- 2. Create a property message in app.component.ts as follows: message:string = 'Some Message'
- 3. Bind this property in app.component.html as follows:

   Should see output as follows:



- 4. 1-way data binding:
  - a. String interpolation :{{}} will consider all types as string only
  - Square bracket syntax : [] retains the type of a variable <button [disabled]="isEnabled"
     (click)="clicked()"
     class="btn btn-primary">Click Me</button>

     Add following in app.component.ts
     isEnabled:boolean = false;
- 5. Event binding: ()
- 6. 2-way data binding

clicked(){ }

- a. Add FormsModule in imports[] of App.module.ts file. [DO NOT MISS]
- b. Use [(ngModel)] i.e banana in a box syntax on the form elements <input type="checkbox" [(ngModel)]=" isEnabled "/>

#### STEP 4: Add components

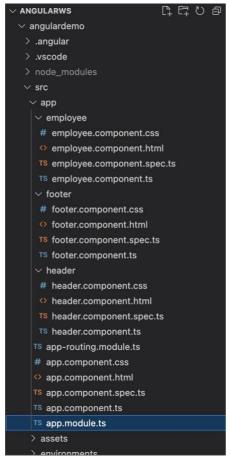
1. Create Header, Footer and Employee component using the below command from within the angulardemo folder:

ng g c header ng g c footer

Apart from the folders created, take a look at declarations[] of app.module.ts file declarations: [

```
AppComponent,
HeaderComponent,
FooterComponent,
EmployeeComponent
```

2. The folder structure looks as follows:



3. To add the components in the page and view the corresponding html, copy the selector value from the respective component.ts file and paste it as a tag in the app.component.html file

```
<app-header></app-header>
<app-employee></app-employee>
<app-footer></app-footer>
```

Should get following output with html content of respective component displayed on the page:



# angulardemo

Some Message

Some Message

header works!

employee works!

footer works!