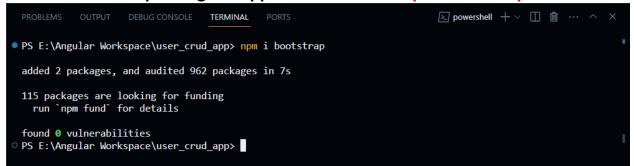


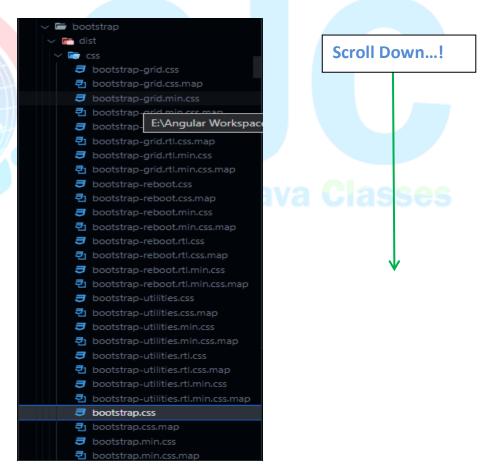
C R U D - I N - A N G U L A R

- Installing bootstrap in Angular project :-
- 1. To install bootstrap in angular app use command :- npm i bootstrap



2. Go to node_modules ---> bootstrap ---> dist ---> css ---> bootstrap -->



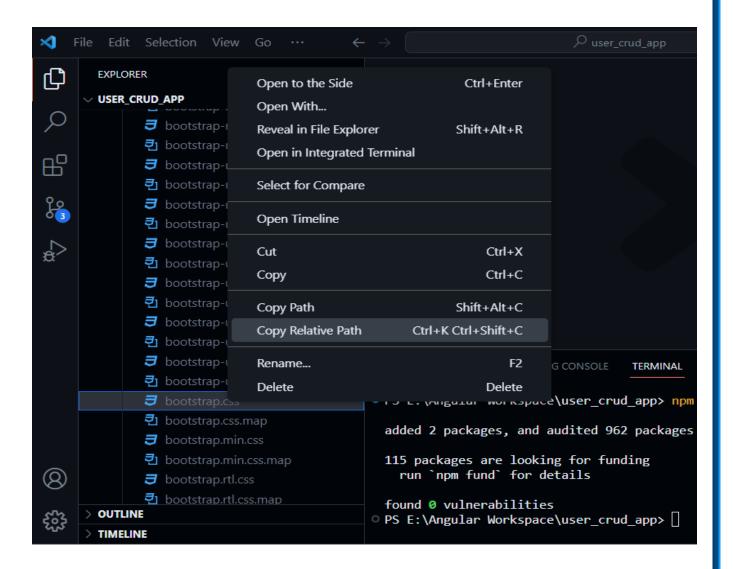


Stop, Near, 1st Floor, Above Rupam Sweets/ Priyanka Collections Building Vikas Mitra Mandal Chowk Road, Karve Nagar, Pune, Maharashtra 411052, Mobile No.- 8888022204



C R U D - I N - A N G U L A R

3. Press right click button on 'bootstrap.css' and choose copy relative path option.





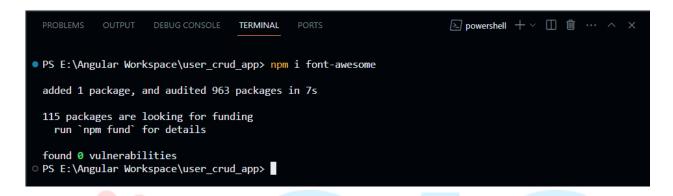
C R U D - I N - A N G U L A R

4. Open angular.json file and in styles array paste the relative path of bootstrap.css file.

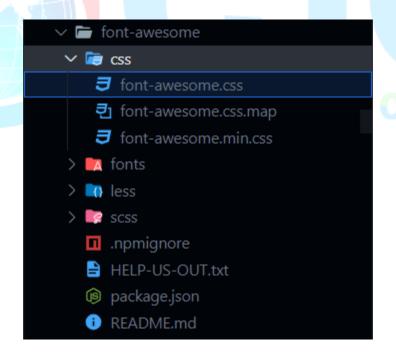
```
🔞 angular.json M 🗙
👂 angular.json > {} projects > {} user_crud_app > {} architect > {} build > {} options > [ ] styles > 🖭 1
         "$schema": "./node_modules/@angular/cli/lib/config/schema.json",
          "version": 1,
          "newProjectRoot": "projects",
         "projects": {
            "user_crud_app": {
    "projectType": "application",
             "schematics": {},
              "root": "",
              "sourceRoot": "src",
              "prefix": "app",
              "architect": {
                "build": {
                  "builder": "@angular-devkit/build-angular:browser",
                  "options": {
                     "outputPath": "dist/user_crud_app",
                    "index": "src/index.html",
                    "main": "src/main.ts",
                    "polyfills": [
                       "zone.js"
                     "tsConfig": "tsconfig.app.json",
                      "src/favicon.ico",
                      "src/assets"
                    ],
"styles": [
                      "src/styles.css",
                      "node_modules/bootstrap/dist/css/bootstrap.css"
 29
                     "scripts": []
```



- Installing Font-awesome in Angular project :-
- 1. To install bootstrap in angular app use command :- npm i font-awesome



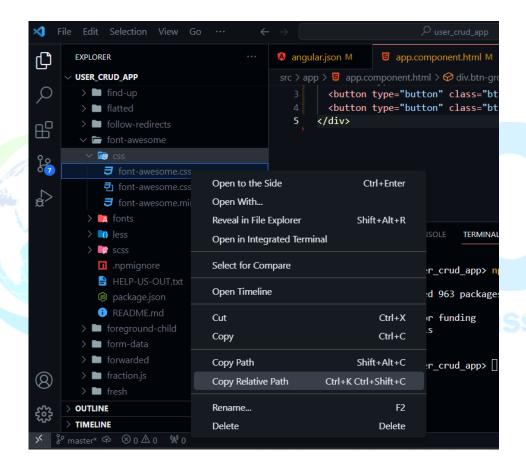
2. Go to node modules/font-awesome/css/font-awesome.css file.





C R U D - I N - A N G U L A R

3. Right click on font-awesome.css and choose copy relative path option.





C R U D - I N - A N G U L A R

4. Open angular.json file and in styles array paste the relative path of font-awesome.css file.

```
🛭 angular.json M 🗙
angular.j: E:\Angular Workspace\user_crud_app\angular.json • Modified uild > {} options > [ ] styles > 1 2
          "$schema": "./node_modules/@angular/cli/lib/config/schema.json",
         "version": 1,
         "newProjectRoot": "projects",
         "projects": {
            "user_crud_app": {
    "projectType": "application",
              "schematics": {},
              "sourceRoot": "src",
              "prefix": "app",
              "architect": {
                "build": {
                  "builder": "@angular-devkit/build-angular:browser",
                  "options": {
                     "outputPath": "dist/user_crud_app",
                    "index": "src/index.html",
                    "main": "src/main.ts",
                     "polyfills": [
                       "zone.js"
                    ],
"tsConfig": "tsconfig.app.json",
                      "src/favicon.ico",
                      "src/assets"
                     "styles": [
                      "src/styles.css",
                      "node\_modules/bootstrap/dist/css/bootstrap.css",\\
 30
                             "node_modules/font-awesome/css/font-awesome.css"
```

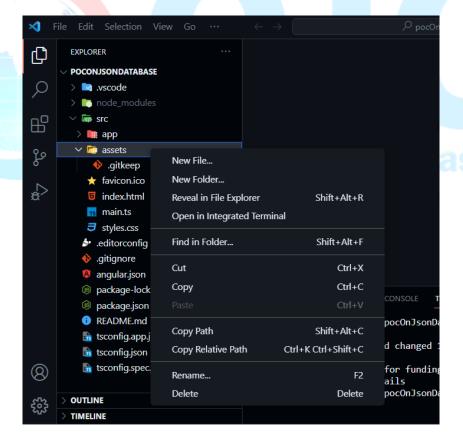


C R U D - I N - A N G U L A R Installing ison-server in angular project :-

 Install json-server in order to run and communicate to JSON databases using command: npm i json-server -g



2. Right click on src/accets directory to create JOSN Document.





C R U D - I N - A N G U L A R

3. Choose 'New File...' option and name the file as db.json



4. Add employee details in db.json in json format as given below.

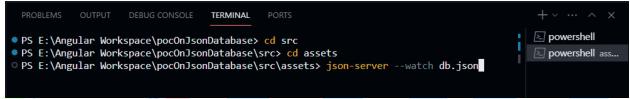


C R U D - I N - A N G U L A R

5. Open new terminal and change the terminal directory to src/accets as given bellow.

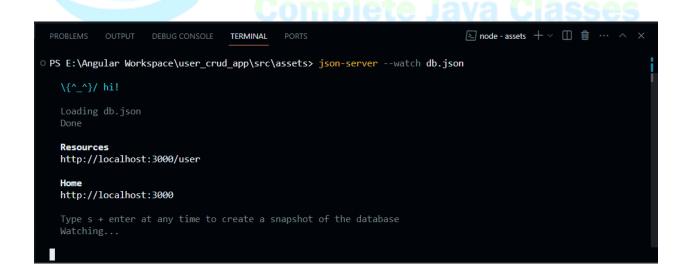


6. Now run json-server using command: json-server --watch db.json



7. After pressed Enter button you can see, json server has been compiled our db.json file

And also json server have and endpoint, form which we can red the data of db.json document.





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8. Open any of the browser window and use the endpoint, which is provided by json-server on terminal . in our scenario endpoint is --> http://localhost:3000/user

(the default port number of json-server is 3000.)



C R U D - I N - A N G U L A R

- Start implementing CRUD operation on user data model :-
- 1. First import HttpClientModule in AppModule to use HttpClient methods in our service to assess endpoints generated by json-server.

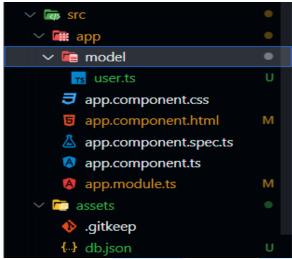
```
app.module.ts M X
src > app > 🔕 app.module.ts > ...
       import { NgModule } from '@angular/core';
       import { BrowserModule } from '@angular/platform-browser';
       import { AppComponent } from './app.component';
       import { HttpClientModule } from "@angular/common/http";
       @NgModule({
         declarations: [
           AppComponent
         imports: [
           BrowserModule,
           HttpClientModule
         ],
         providers: [],
         bootstrap: [AppComponent]
       export class AppModule { }
```

2. Open new terminal and Create User class to store user details in model package using ng command: ng g class user --skip-tests





C R U D - I N - A N G U L A R



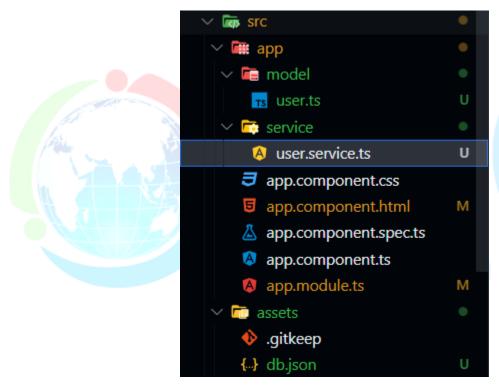
3. Define required properties (data-members) in User model.



C R U D - I N - A N G U L A R

4. Create UserService to communicate with http endpoints generated by json-server in service package using command: ng g s service/user --skip-tests









C R U D - I N - A N G U L A R

5. In UserService class inject HttpClient class to consume HttpClient methods like get, post, put, delete. And also declare function to post user object, which will accept user object as parameter argument.

6. Create user module using command: ng g m user

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

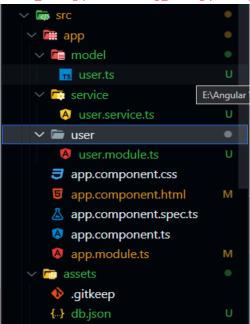
PS E:\Angular Workspace\user_crud_app> ng g m user
CREATE src/app/user/user.module.ts (190 bytes)

PS E:\Angular Workspace\user_crud_app> []

powershell
```



C R U D - I N - A N G U L A R



7. Import this UserModule in AppModule.

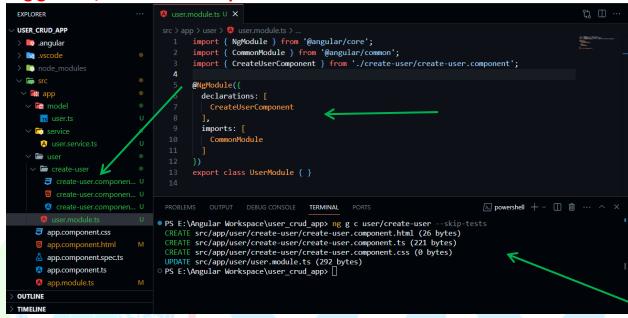
```
app.module.ts M X
src > app > 🐧 app.module.ts > ધ AppModule
       import { NgModule } from '@angular/core';
       import { BrowserModule } from '@angular/platform-browser';
import { AppComponent } from './app.component';
       import { HttpClientModule } from "@angular/common/http";
       import { UserModule } from './user/user.module';
       @NgModule({
         declarations: [
            AppComponent
          ],
          imports: [
            BrowserModule,
            HttpClientModule,
           UserModule
 13
         providers: [],
         bootstrap: [AppComponent]
       export class AppModule { }
```



C R U D - I N - A N G U L A R

8. Create CreateUserComponent in UserModule using command:

ng g c user/create-user --skip-tests



9. Export CreateUserComponent from UserModule.

```
user.module.ts U 🗙
src > app > user > 🤼 user.module.ts > 😭 UserModule
       import { NgModule } from '@angular/core';
       import { CommonModule } from '@angular/common';
       import { CreateUserComponent } from './create-user/create-user.component';
       @NgModule({
         declarations: [
           CreateUserComponent
         ],
         imports: [
          CommonModule
         ],
         exports:[
 13
           CreateUserComponent
       export class UserModule { }
```



C R U D - I N - A N G U L A R

10. Add selector of CreateUserComponent in app.component.html as given bellow.

```
<div class="row w-100 text-center m-0 bg-danger">
<h1 style="color: white;">User CRUD Application..!</h1>
</div>
<div class="row w-100 m-0 p-2">
<div class="col-6 border border-danger border ">
<app-create-user></div>
<div class="col-6 border border-danger boder">
<h1>We will have next component over here.</h1>
</div>
</div>
</div>
</div>
```



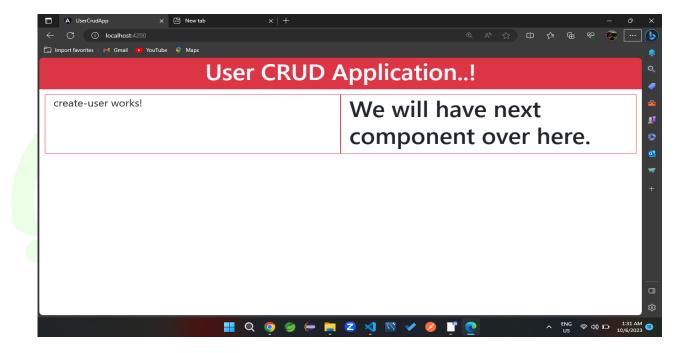
N - A N G

by Kunal Sir U L A R

Unto now our output should look like as below.

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R





C R U D - I N - A N G U L A R

11. In create-user.component.ts inject FormBuilder and UserService also declare user-registration form and initialize it in ngOnInit hook then declare on function to subscribe saveUser function of a UserService.

```
create-user.component.ts U X
src > app > user > create-user > 🚯 create-user.component.ts > 😭 CreateUserComponent > 😚 ngOnInit
       import { Component, OnInit } from '@angular/core';
       import { FormBuilder,FormGroup } from '@angular/forms';
       import { UserService } from 'src/app/service/user.service';
       @Component({
         selector: 'app-create-user',
         templateUrl: './create-user.component.html',
         styleUrls: ['./create-user.component.css']
       export class CreateUserComponent implements OnInit{
         constructor(private fb:FormBuilder,private us:UserService){ }
          userReg:FormGroup;
         ngOnInit(): void {
            this.userReg=this.fb.group(
 16
               id:[0],
               name:[],
               emailId:[],
               password:[]
           this.us.getUser()
         onSubmitUserForm()
           this.us.saveUser(this.userReg.value).subscribe();
           this.userReg.reset();
```



C R U D - I N - A N G U L A R

12. In create-user.component.html bind the user-registration form and on ngSubmit event call onSubmitUserForm function.

```
    □ create-user.component.html U X

src > app > user > create-user > ♥ create-user.component.html > ❤ form
       <form [formGroup]="userReg" (ngSubmit)="onSubmitUserForm()">
           <h1 class="text-center mb-5">
               <i class="fa fa-user-plus" aria-hidden="true"></i> Sign Up Here..!
           </h1>
         <div class="form-outline mb-3">
           <input type="text" id="nm" class="form-control" formControlName="name"/>
           <label class="form-label" for="nm">Enter Name</label>
         </div>
         <div class="form-outline mb-3">
           <input type="email" id="email" class="form-control" formControlName="emailId"/>
           <label class="form-label" for="email">Enter Email</label>
         </div>
               <!-- password input -->
         <div class="form-outline mb-3">
           <input type="text" id="ps" class="form-control" formControlName="password"/>
           <label class="form-label" for="ps">Enter Password</label>
         <button type="submit" class="btn btn-primary btn-block mb-4">Sign Up</button>
 26
       </form>
```



