

App.routes.ts

```

import { CanDeactivate } from '@angular/router';
import { HomeComponent } from "../home.component";
import { AboutComponent } from "../about.component";
import { RegisterComponent } from "../register.component";
import { userListComponent } from "../userList.component";
import { EditUserComponent } from "../editUser.component";
import { LoginComponent } from "../login.component";
import { ProtectedGaurd } from '../protectdata.guard';
import { AuthGaurd } from '../auth.gaurd';

export const routes=[
  {path:"home",component:HomeComponent},
  {path:"about",component:AboutComponent},
  {path:"login",component:LoginComponent},
  {path:"register",component:RegisterComponent,canDeactivate:[ProtectedGaurd]},
  {path:"userList",component:userListComponent,canActivate:[AuthGaurd]},
  {path:"editUser/:userId",component:EditUserComponent},
  {path:"",component:RegisterComponent}
]

```

Auth.gaurd.ts

```

import { CanActivate, Router } from '@angular/router';
import { Injectable } from "@angular/core";
@Injectable()
export class AuthGaurd implements CanActivate{
  constructor(private router:Router){}
  canActivate():boolean{
    var data = localStorage.getItem("user");
    if(data){
      return true;
    }
    else{
      this.router.navigate(['/login']);
      return false;
    }
  }
}

```



```

import { Injectable } from '@angular/core';

import { ActivatedRouteSnapshot, CanActivate, RouterStateSnapshot, Router } from
"@angular/router";

import { AuthService } from '../auth.service';

@Injectable()
export class securityGaurd implements CanActivate{

//canActivate(route:ActivatedRouteSnapshot,state:RouterStateSnapshot,component:Lo
ginComponent){

  constructor(public auth:AuthService,public route:Router){}

  canActivate():boolean{
    if(!this.auth.authenticate()){
      this.route.navigate(['/login']);
      return false;
    }
    else
    {
      return true;
    }
  }
}

```

Register.component.ts

```

import { Component } from "@angular/core";
import { CommonService } from "../common.service";
import { User } from "../user";
import { Router } from "@angular/router";

@Component({
  selector:"register",
  templateUrl:"../register.component.html",
  styleUrls: ['../assets/vzbootstrap/styles/bootstrap.min.css',
'../assets/vzbootstrap/styles/vzbootstrap-main.min.css',
'../assets/styles/styles.css']
})
export class RegisterComponent{
  user:User;

```



```
access:boolean = true;
constructor(private cs:CommonService,private router:Router){
  this.user = new User();
}
register(){
  this.access =false;
  this.cs.registerUser(this.user).subscribe((data)=>{
    if(data){
      this.router.navigate(['/userList']);
    }
  });
}
}
```

//login.component.ts

```
login() {
  this.access = false;

  localStorage.setItem("user", "chandra");
  this.router.navigate(['/userList']);
}
```

//userList.component.ts

```
logout(){
  localStorage.removeItem('user');
  this.router.navigate(['/login']);
}
```