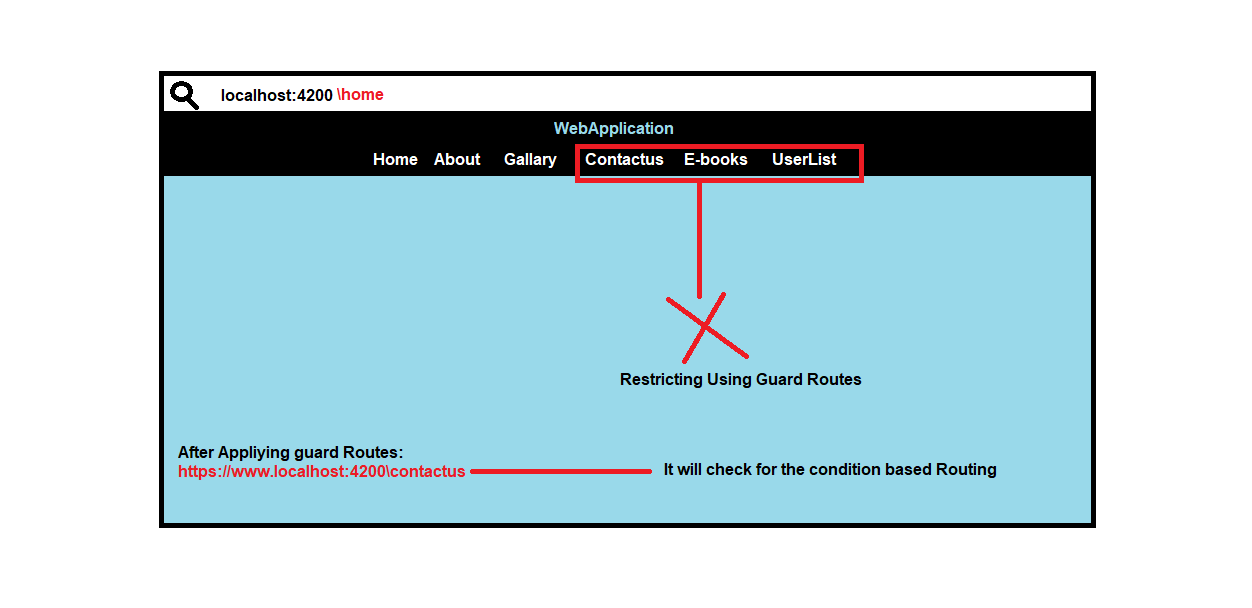
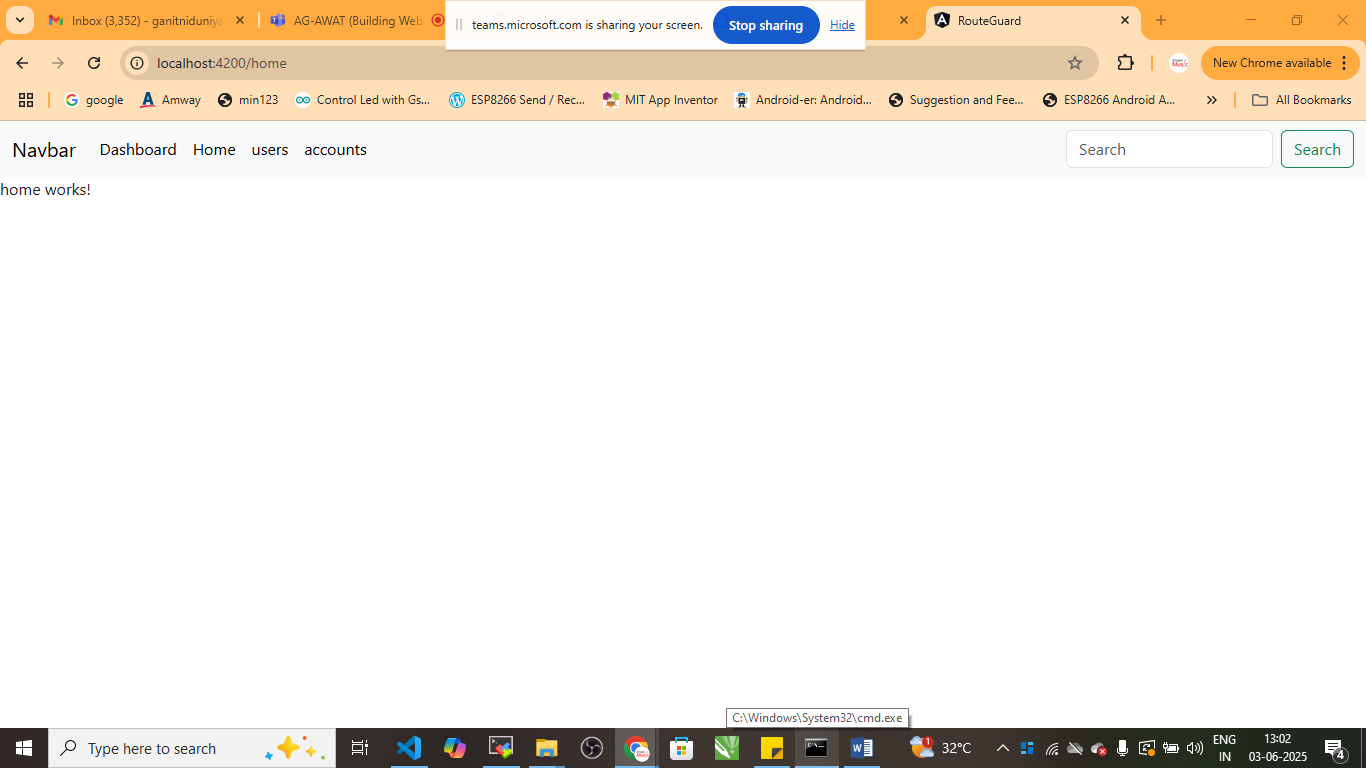
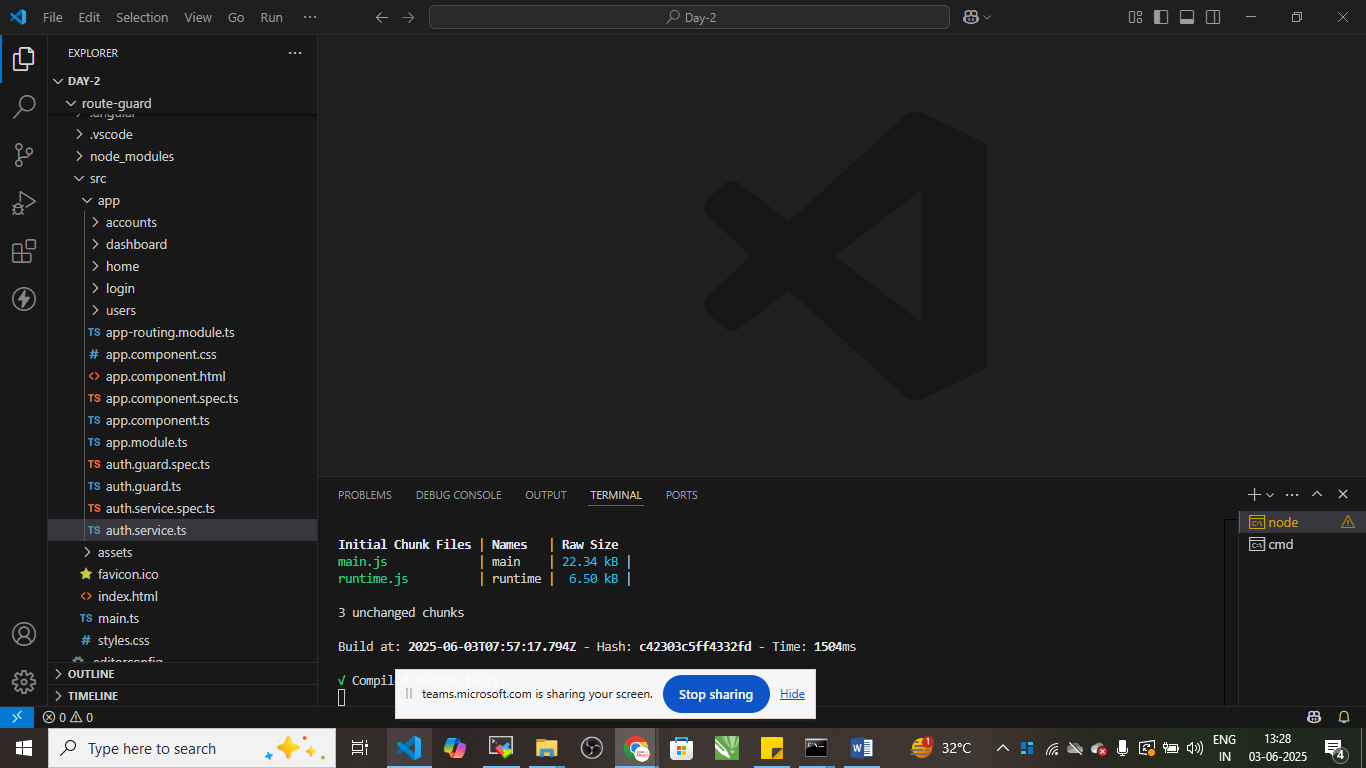
Route Guards

* In angular 15 , Route Guards are Used to control access to routes based on conditions like authentication, roles, or unsaved changes. The most common guards includes:
  + - **Can Activate**
    - **CanActivateChild**
    - **CanDeactivate**
    - **Resolve**
    - **CanLoad**





* Step:1 Create Multiple components



1. Home : ng g c home
2. Users: ng g c user
3. Login: ng g c login
4. Dashbords: ng g c dashboard
5. Accounts: ng g c accounts

Step:2 Create Navigation

App.component.html

<nav class="navbar navbar-expand-lg bg-body-tertiary">

  <div class="container-fluid">

    <a class="navbar-brand" href="#">Navbar</a>

    <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">

      <span class="navbar-toggler-icon"></span>

    </button>

    <div class="collapse navbar-collapse" id="navbarSupportedContent">

      <ul class="navbar-nav me-auto mb-2 mb-lg-0">

        <li class="nav-item">

          <a class="nav-link active" aria-current="page" routerLink="login" href="#">login</a>

        </li>

        <li class="nav-item">

          <a class="nav-link active" aria-current="page" routerLink="dashboard" href="#">Dashboard</a>

        </li>

        <li class="nav-item">

          <a class="nav-link active" aria-current="page" routerLink="home" href="#">Home</a>

        </li>

        <li class="nav-item">

          <a class="nav-link active" aria-current="page" routerLink="users" href="#">users</a>

        </li>

        <li class="nav-item">

          <a class="nav-link active" aria-current="page" routerLink="accounts" href="#">accounts</a>

        </li>

      </ul>

      <form class="d-flex" role="search">

        <input class="form-control me-2" type="search" placeholder="Search" aria-label="Search"/>

        <button class="btn btn-outline-success" type="submit">Search</button>

      </form>

    </div>

  </div>

</nav>

<router-outlet></router-outlet>

Create routes for the same

App.routing.module.ts

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

import { RouterModule, Routes } from '@angular/router';

import { DashboardComponent } from './dashboard/dashboard.component';

import { HomeComponent } from './home/home.component';

import { UsersComponent } from './users/users.component';

import { AccountsComponent } from './accounts/accounts.component';

import { LoginComponent } from './login/login.component';

import { authGuard } from './auth.guard';

const routes: Routes = [

  {path:"login",component:LoginComponent},

  {path:"dashboard",

    component:DashboardComponent,

  },

  {path:"home",component:HomeComponent },

  {path:"users",component:UsersComponent, },

  {path:"accounts",component:AccountsComponent, }

];

@NgModule({

  imports: [RouterModule.forRoot(routes)],

  exports: [RouterModule]

})

export class AppRoutingModule { }

Step:3 create Auth Service

* ng g s auth

auth.service.ts

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

@Injectable({

  providedIn: 'root'

})

export class AuthService {

  private loggedIn=false;

  login(){

    this.loggedIn=true;

  }

  logout(){

    this.loggedIn=false;

  }

  isLoggedin():boolean{

    return this.loggedIn;

  }

  constructor() { }

}

Step:4 Create GuardRule

* ng generate guard auth

this will create auth.guard.ts file

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

import { CanActivateFn, Router } from '@angular/router';

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

export const authGuard: CanActivateFn = (route, state) => {

  const authService= inject(AuthService);

  const router=inject(Router)

  if(authService.isLoggedin()){

    return true;

  }

  else{

    return router.createUrlTree(['/login']);

  }

};

After this inject the same in routing

App.routing.module.ts file

const routes: Routes = [

  {path:"login",component:LoginComponent},

  {path:"dashboard",

    component:DashboardComponent,

    canActivate:[authGuard]

  },

  {path:"home",component:HomeComponent},

  {path:"users",component:UsersComponent},

  {path:"accounts",component:AccountsComponent }

];

Goto> login.component.html file

<div class="container">

    <button class="btn btn-warning" (click)="login()">Login</button>

</div>

Goto> login.component.ts file

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

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

import { Router } from '@angular/router';

@Component({

  selector: 'app-login',

  templateUrl: './login.component.html',

  styleUrls: ['./login.component.css']

})

export class LoginComponent {

  constructor(private auth:AuthService,private router:Router){}

  login(){

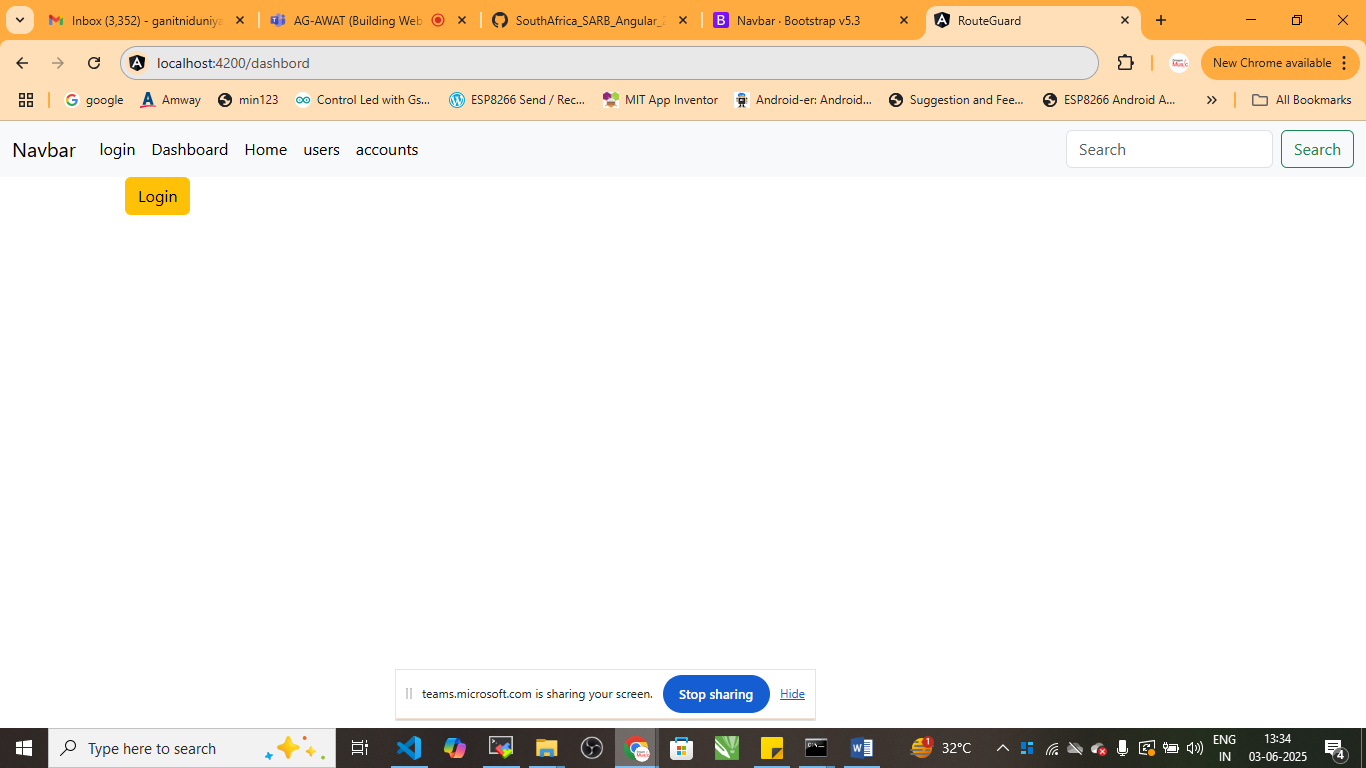
    this.auth.login();

    this.router.navigate(['/dashboard']);

  }

}

Save and check the output



If you will try to access localhost:4200/dashboard

It will redirect you to localhost:4200/login

