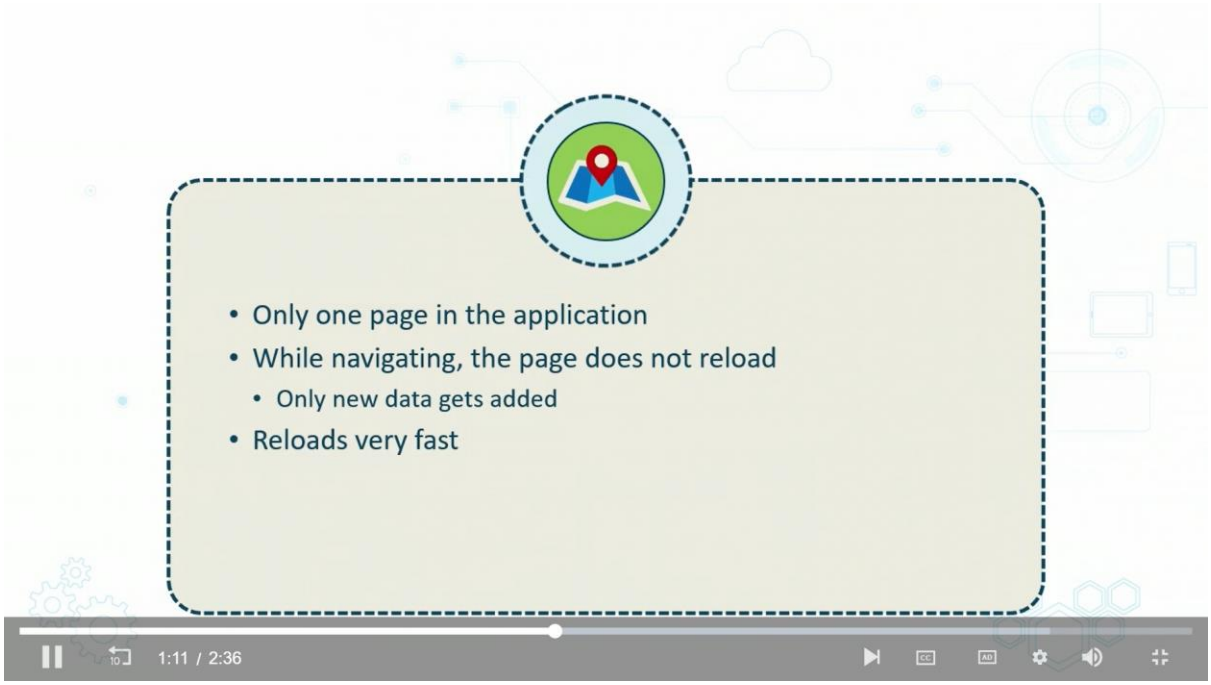
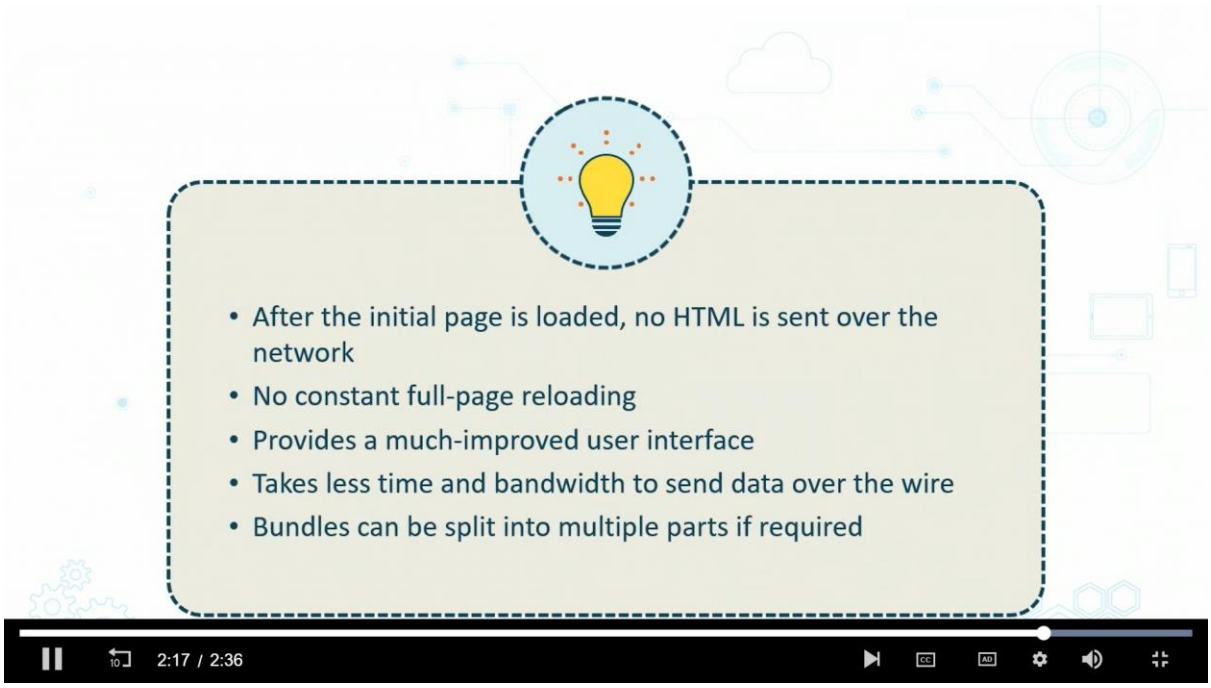
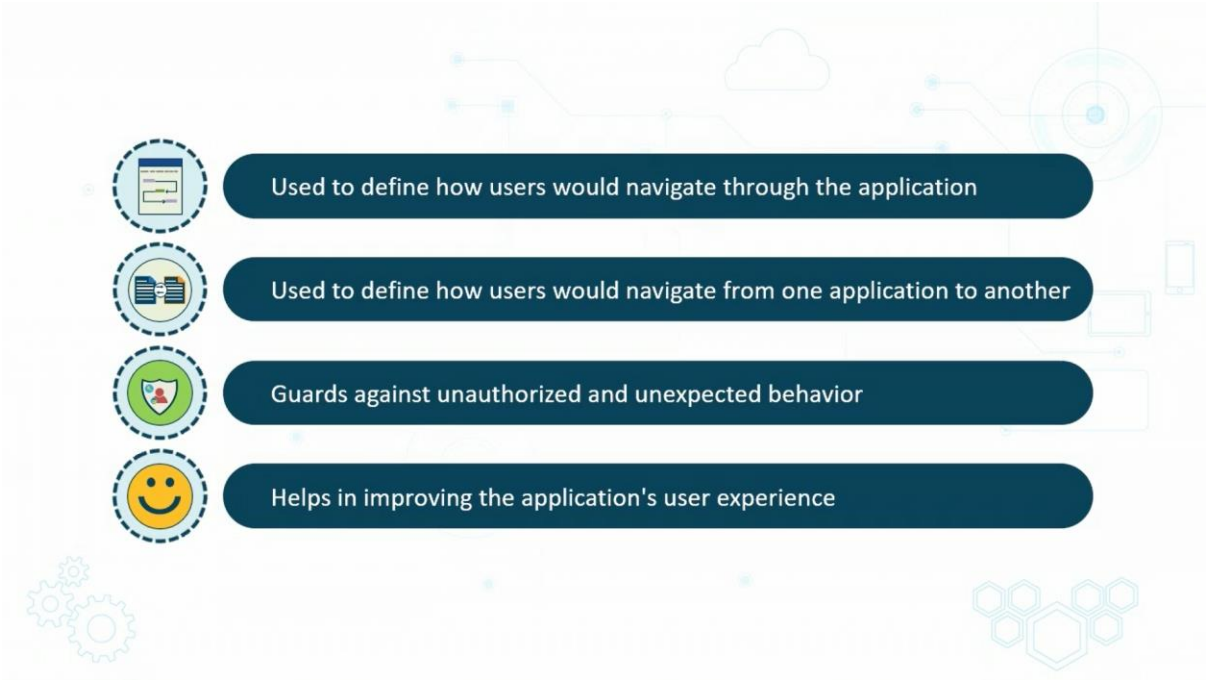
Single Page Architecture

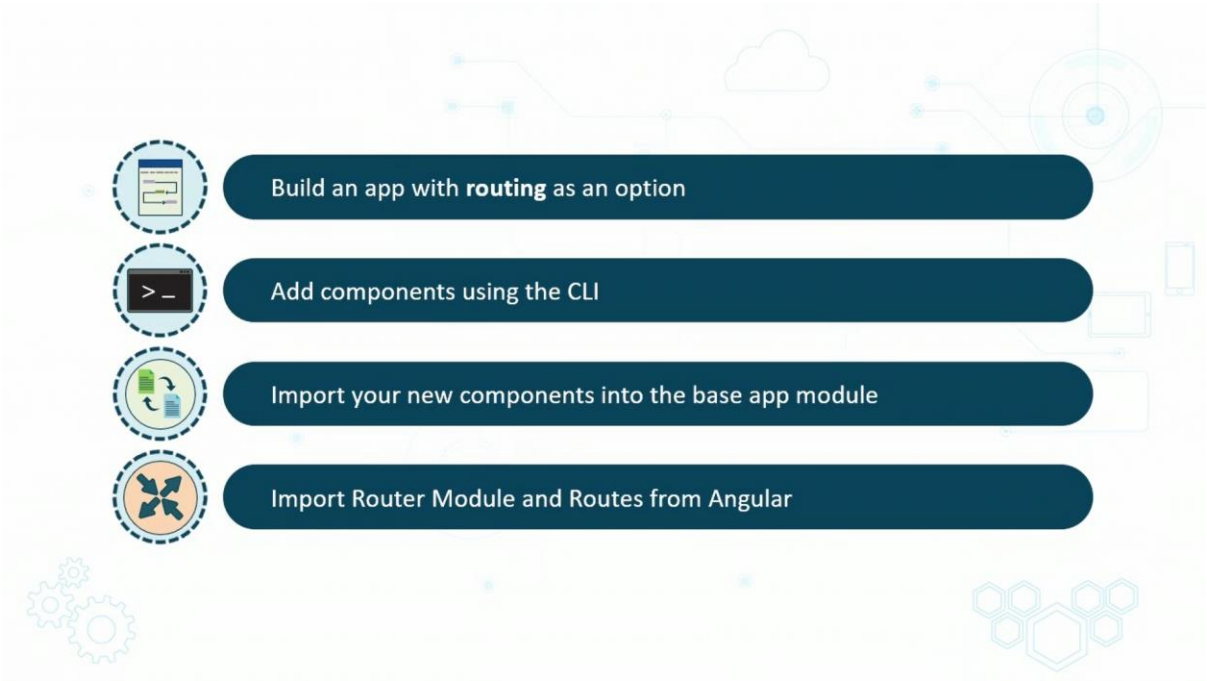




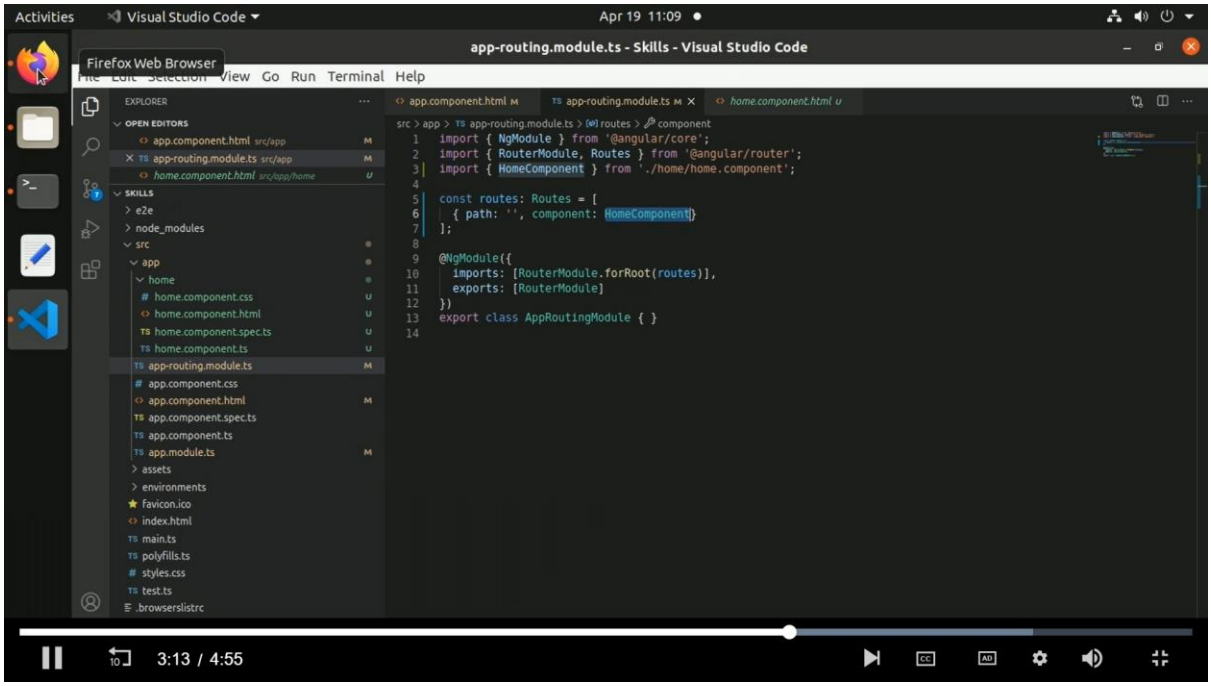
Routing in angular

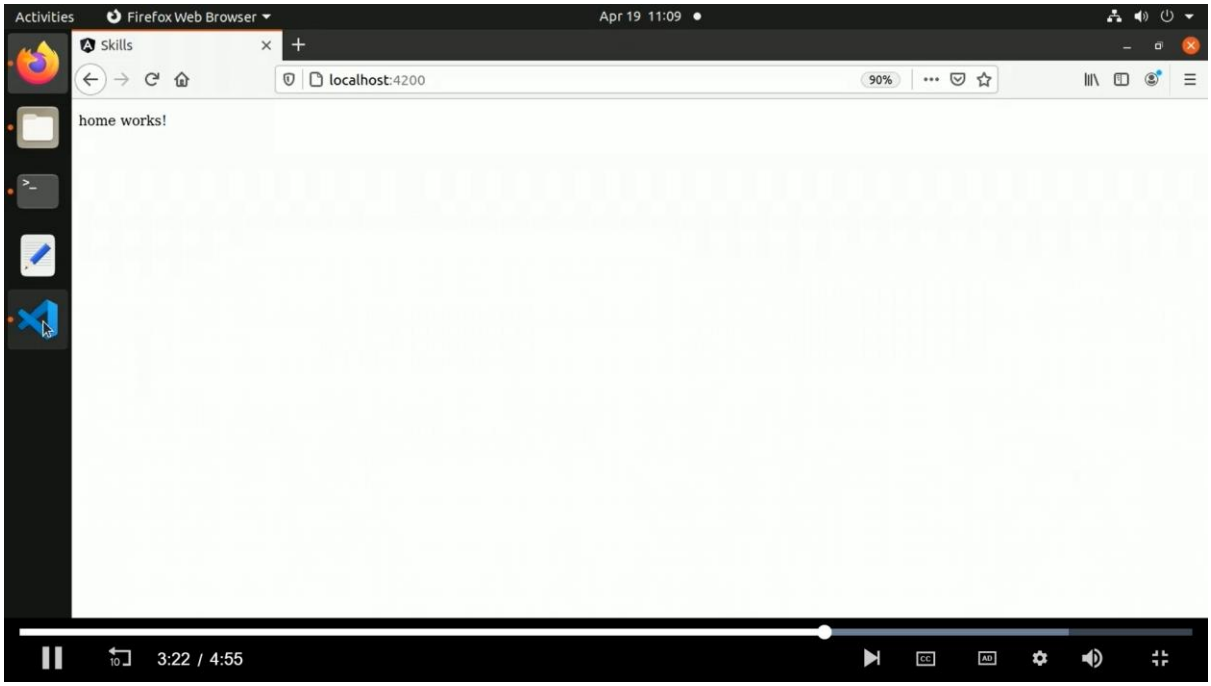


Routing lifecycle

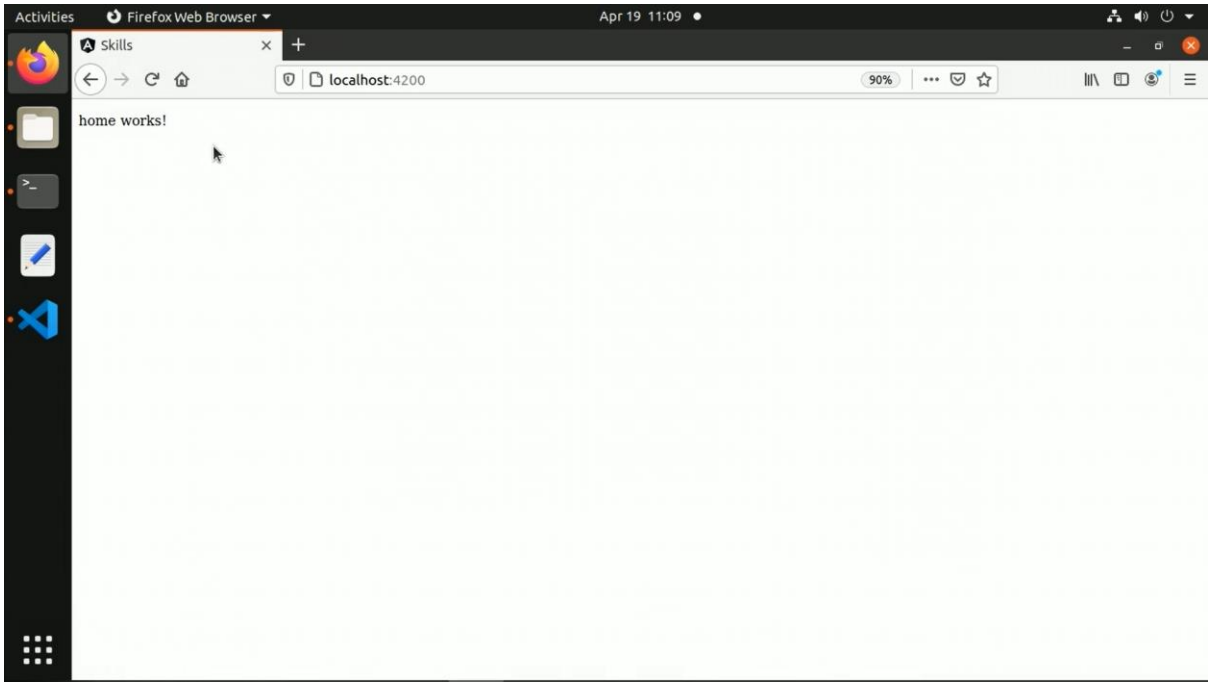


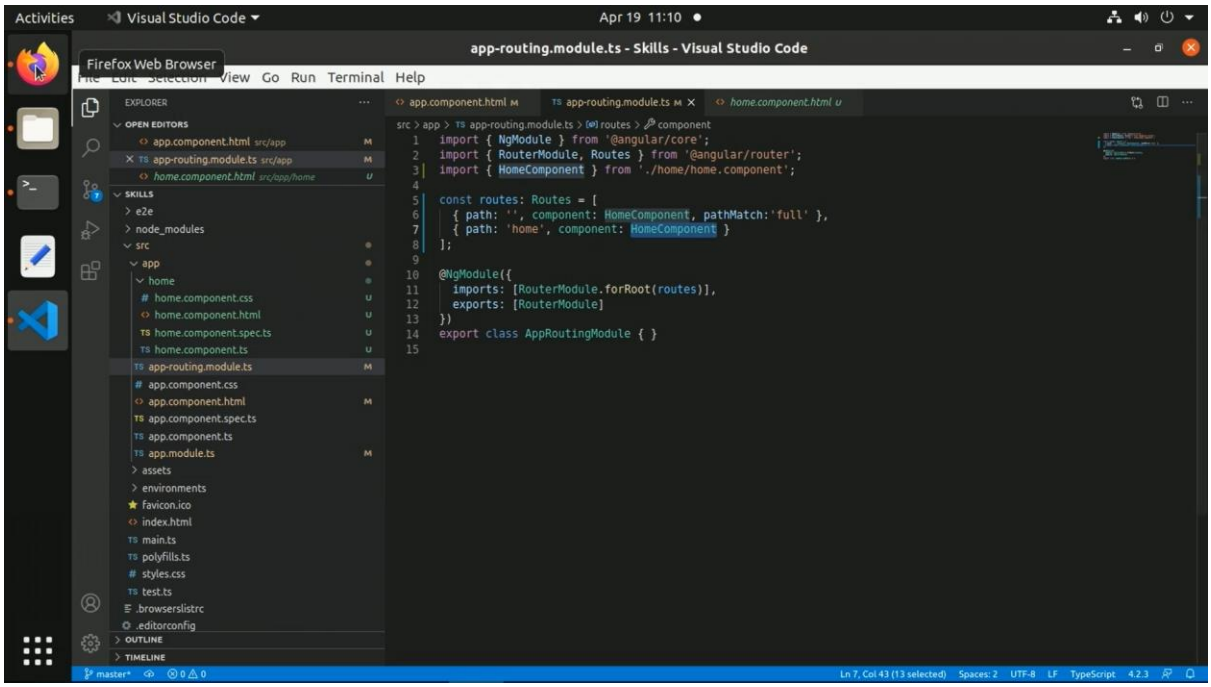
Configuring Angular Routes

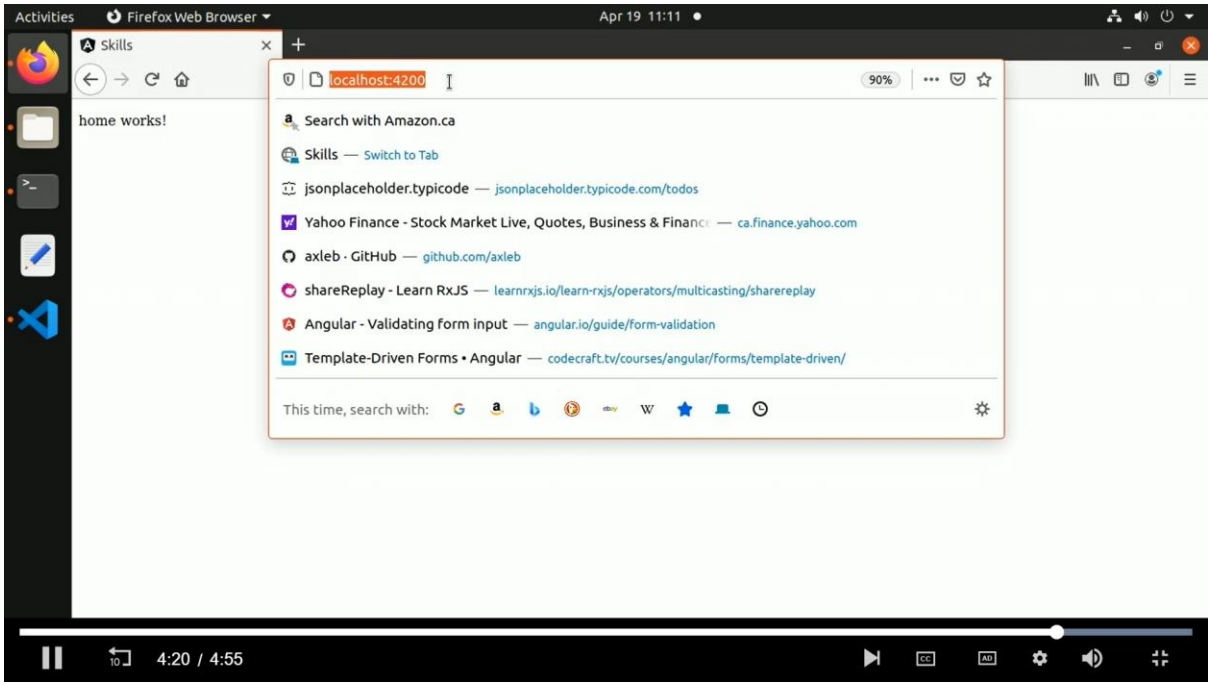

Activities
Visual Studio Code
Apr 19 11:09
app-routing.module.ts - Skills - Visual Studio Code
Firefox Web Browser
File Edit Selection View Go Run Terminal Help
EXPLORER
OPEN EDITORS
app.component.html src/app
app-routing.module.ts src/app
home.component.html src/app/home
SKILLS
e2e
node_modules
src
app
home
home.component.css
home.component.html
home.component.spec.ts
home.component.ts
app-routing.module.ts
app.component.css
app.component.html
app.component.spec.ts
app.component.ts
app.module.ts
assets
environments
favicon.ico
index.html
main.ts
polyfills.ts
styles.css
test.ts
.browserslistrc
app.component.html
app-routing.module.ts
home.component.html
src > app > app-routing.module.ts > routes > component
import { NgModule } from '@angular/core';
import { RouterModule, Routes } from '@angular/router';
import { HomeComponent } from './home/home.component';
const routes: Routes = [
{ path: '', component: HomeComponent}
];
@NgModule({
imports: [RouterModule.forRoot(routes)],
exports: [RouterModule]
})
export class AppRoutingModule { }
3:13 / 4:55

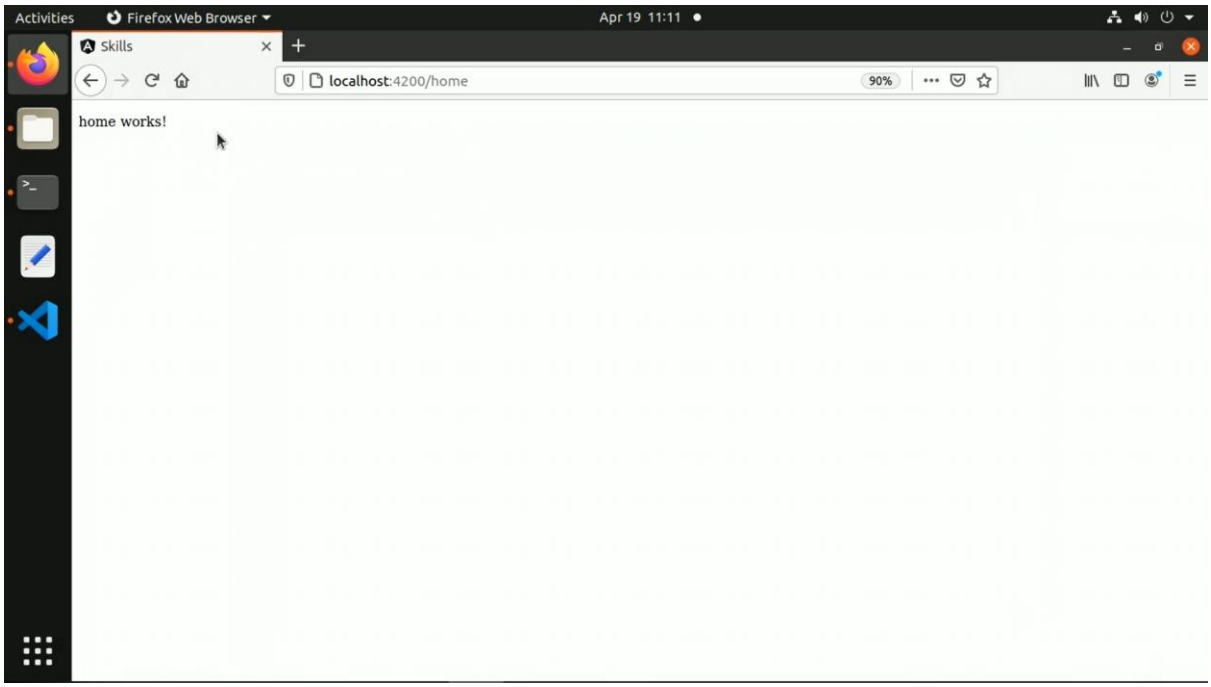

Activities
Firefox Web Browser
Apr 19 11:09
Skills
localhost:4200
90%
home works!
3:22 / 4:55

Home

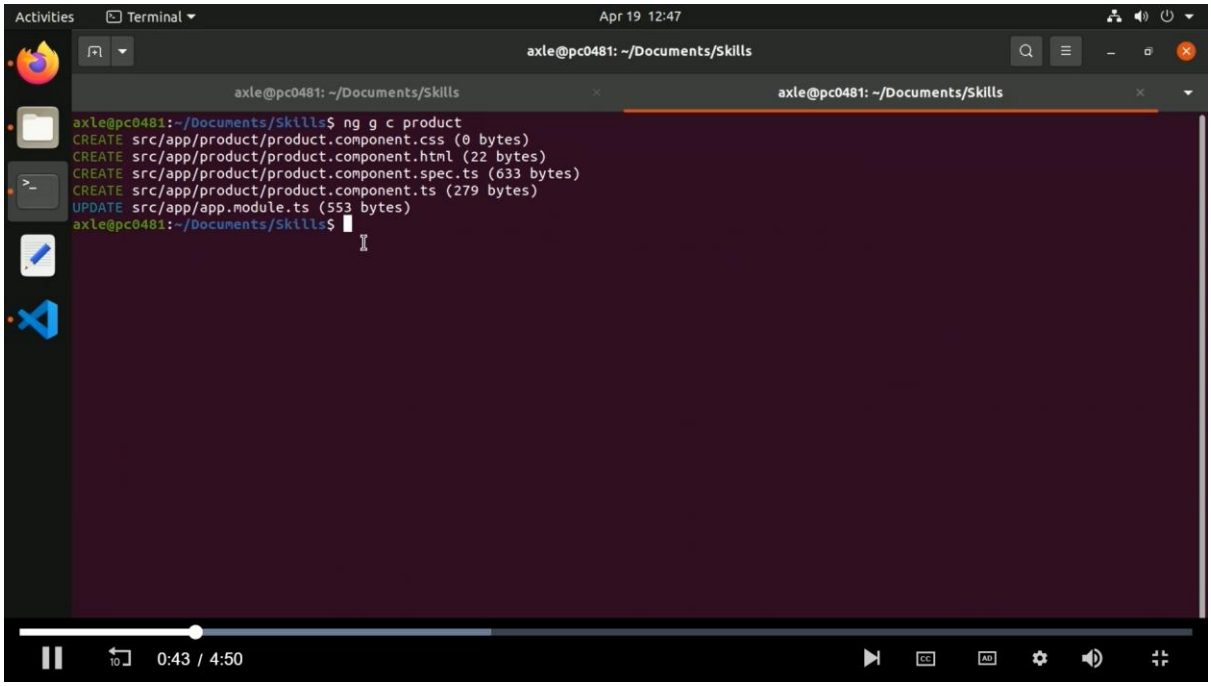

Activities
Firefox Web Browser
Apr 19 11:09
Skills
localhost:4200
90%
home works!

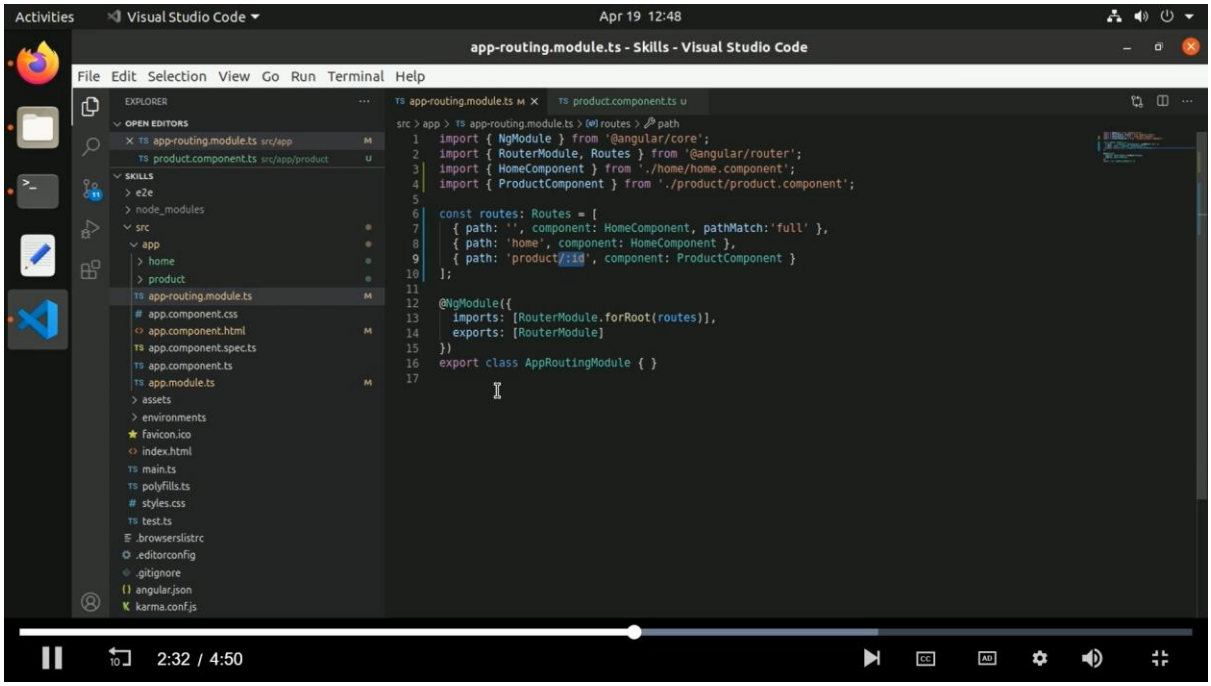

Activities
Visual Studio Code
Apr 19 11:10
app-routing.module.ts - Skills - Visual Studio Code
Firefox Web Browser
File Edit Selection View Go Run Terminal Help
EXPLORER
OPEN EDITORS
app.component.html src/app
app-routing.module.ts src/app
home.component.html src/app/home
SKILLS
e2e
node_modules
src
app
home
home.component.css
home.component.html
home.component.spec.ts
home.component.ts
app-routing.module.ts
app.component.css
app.component.html
app.component.spec.ts
app.component.ts
app.module.ts
assets
environments
favicon.ico
index.html
main.ts
polyfills.ts
styles.css
test.ts
.browserslistrc
.editorconfig
OUTLINE
TIMELINE
app.component.html
app-routing.module.ts
home.component.html
src > app > app-routing.module.ts > routes > component
import { NgModule } from '@angular/core';
import { RouterModule, Routes } from '@angular/router';
import { HomeComponent } from './home/home.component';
const routes: Routes = [
{ path: '', component: HomeComponent, pathMatch:'full' },
{ path: 'home', component: HomeComponent }
];
@NgModule({
imports: [RouterModule.forRoot(routes)],
exports: [RouterModule]
})
export class AppRoutingModule { }
master*
Ln 7, Col 43 (13 selected)
Spaces: 2
UTF-8
LF
TypeScript
4.2.3

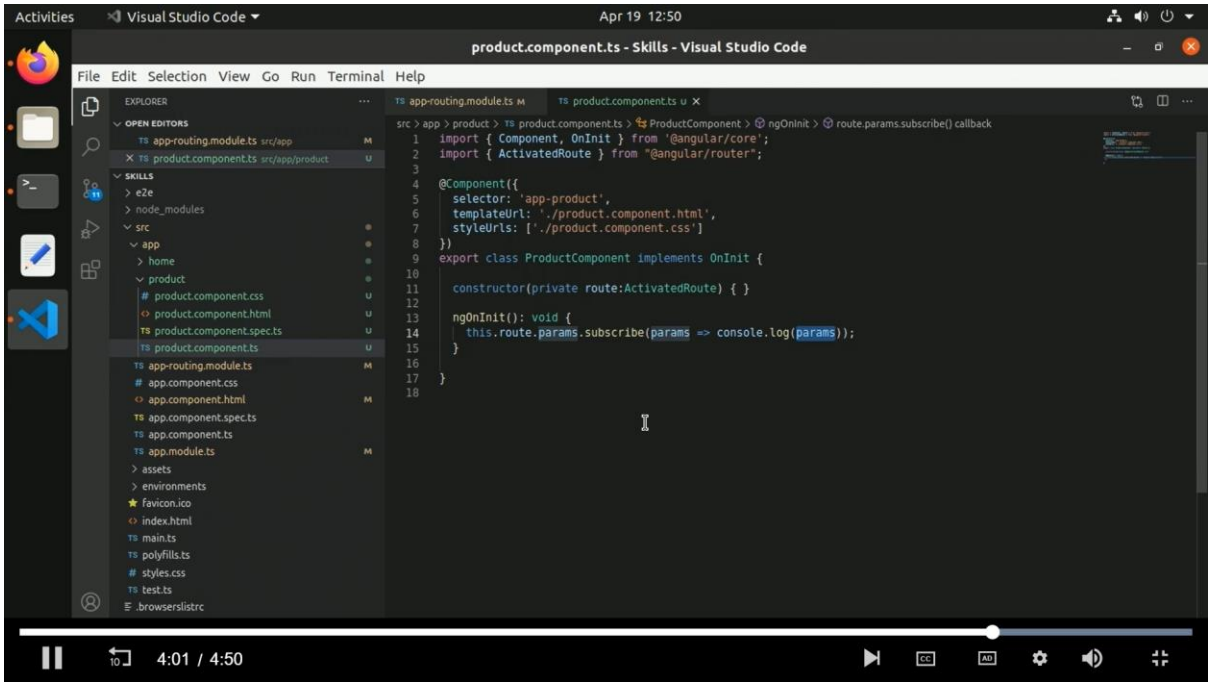


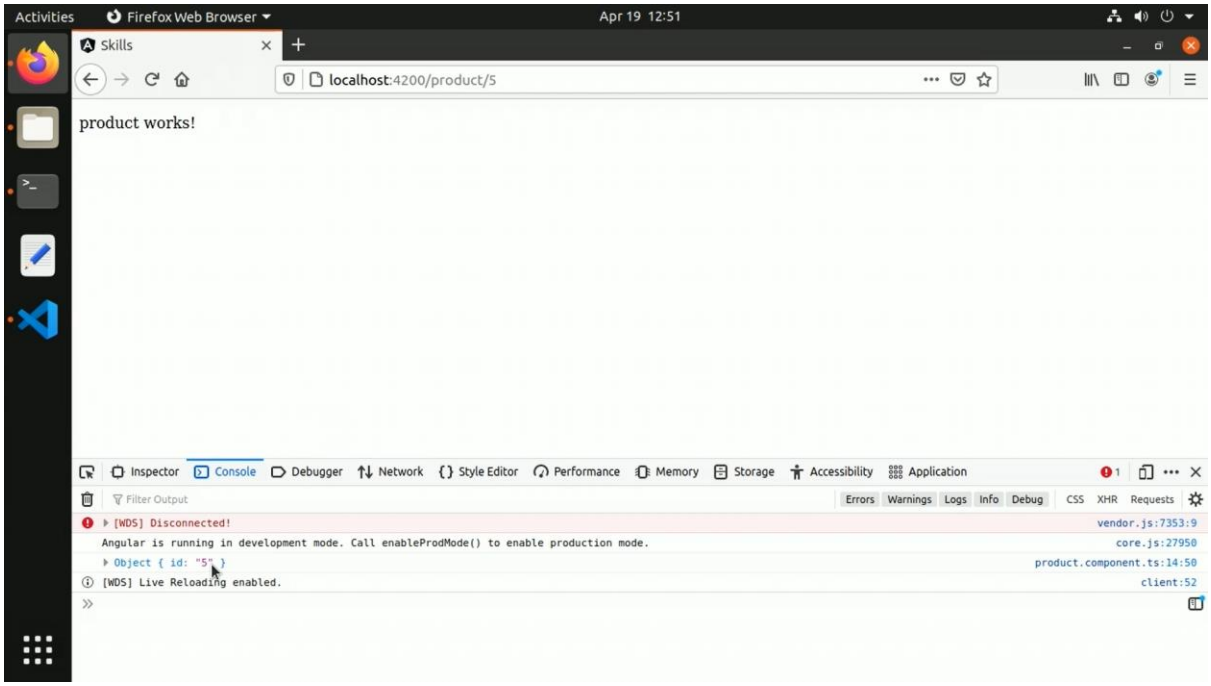


Passing parameter to Angular Routes


Activities
Terminal
Apr 19 12:47
axle@pc0481: ~/Documents/Skills
axle@pc0481: ~/Documents/Skills
axle@pc0481: ~/Documents/Skills
axle@pc0481:~/Documents/Skills$ ng g c product
CREATE src/app/product/product.component.css (0 bytes)
CREATE src/app/product/product.component.html (22 bytes)
CREATE src/app/product/product.component.spec.ts (633 bytes)
CREATE src/app/product/product.component.ts (279 bytes)
UPDATE src/app/app.module.ts (553 bytes)
axle@pc0481:~/Documents/Skills$
0:43 / 4:50

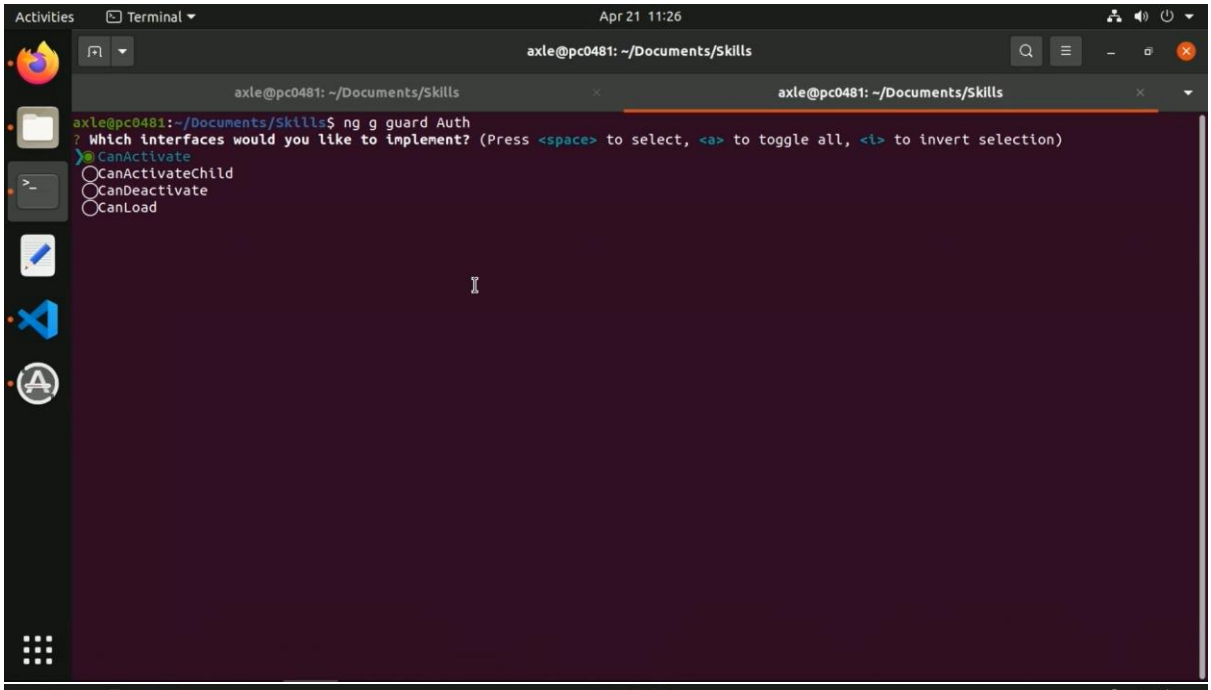

Activities
Visual Studio Code
Apr 19 12:48
app-routing.module.ts - Skills - Visual Studio Code
File Edit Selection View Go Run Terminal Help
EXPLORER
OPEN EDITORS
app-routing.module.ts src/app
product.component.ts src/app/product
SKILLS
e2e
node_modules
src
app
home
product
app-routing.module.ts
app.component.css
app.component.html
app.component.spec.ts
app.component.ts
app.module.ts
assets
environments
favicon.ico
index.html
main.ts
polyfills.ts
styles.css
test.ts
.browserslistrc
.editorconfig
.gitignore
angular.json
karma.conf.js
app-routing.module.ts
product.component.ts
src > app > app-routing.module.ts > routes > path
import { NgModule } from '@angular/core';
import { RouterModule, Routes } from '@angular/router';
import { HomeComponent } from './home/home.component';
import { ProductComponent } from './product/product.component';
const routes: Routes = [
{ path: '', component: HomeComponent, pathMatch:'full' },
{ path: 'home', component: HomeComponent },
{ path: 'product/:id', component: ProductComponent }
];
@NgModule({
imports: [RouterModule.forRoot(routes)],
exports: [RouterModule]
})
export class AppRoutingModule { }
2:32 / 4:50

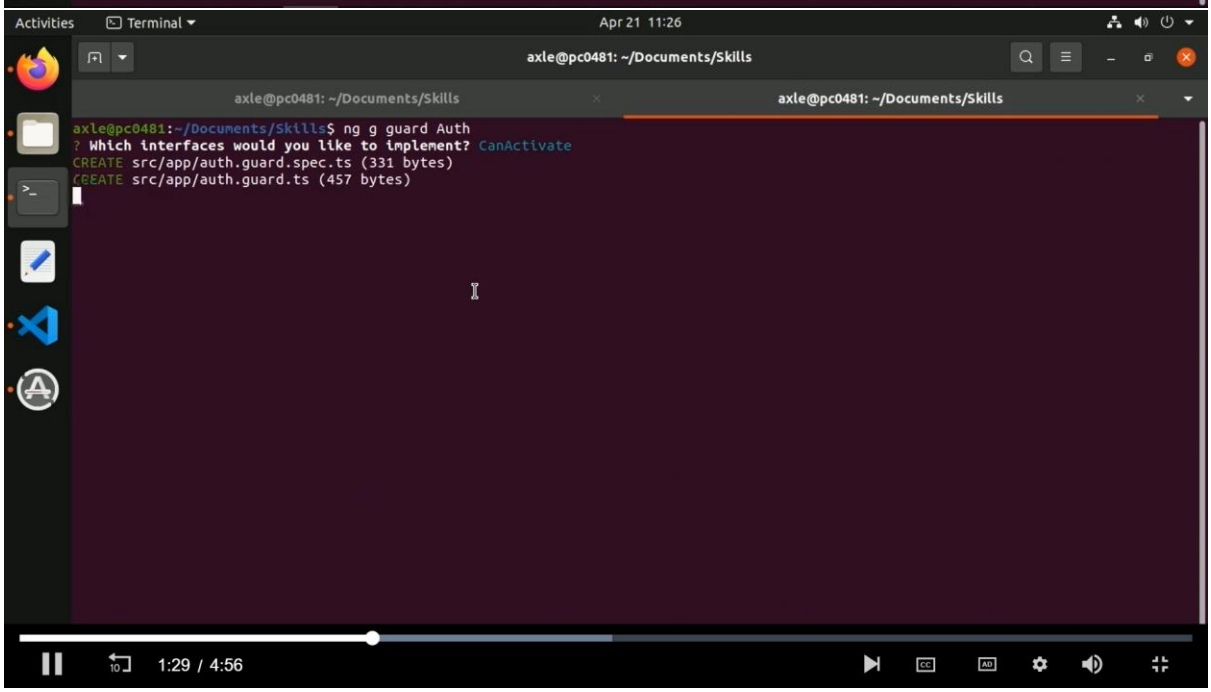


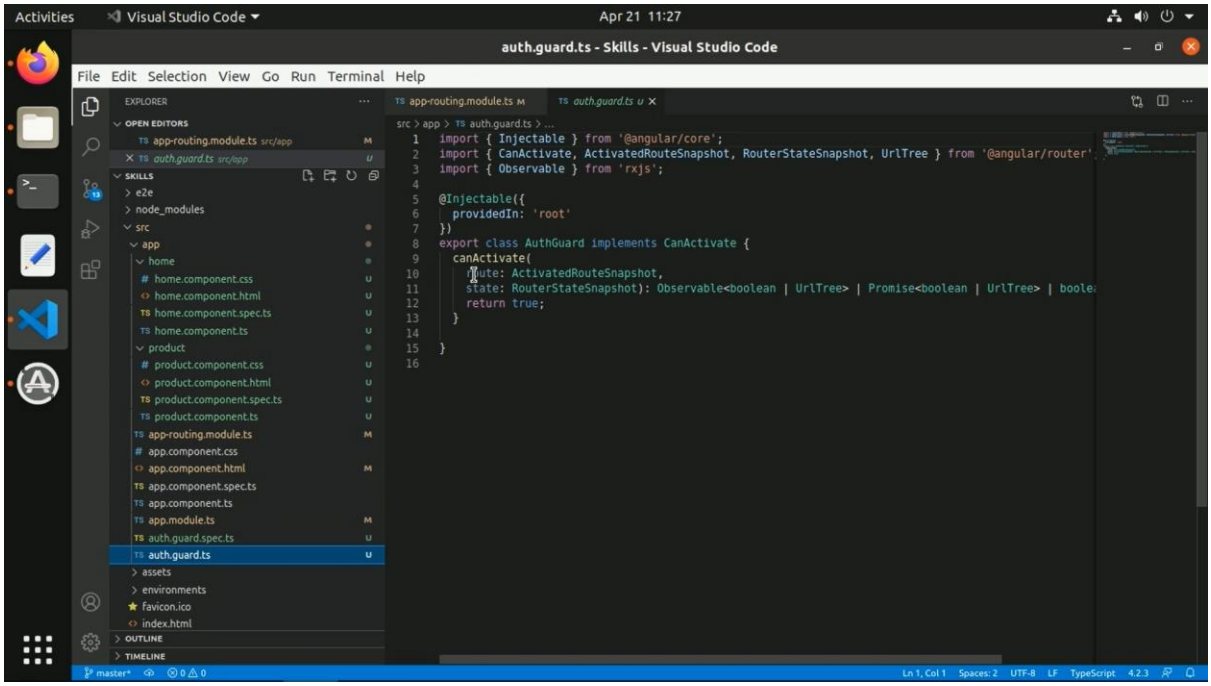


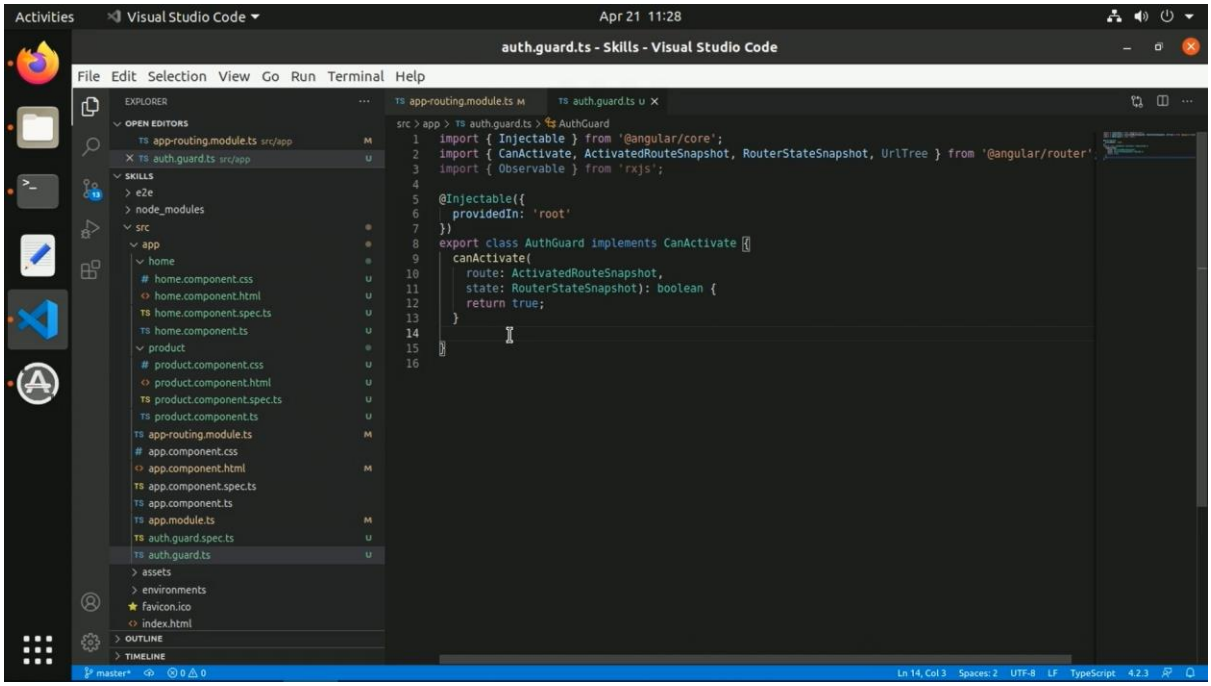
Activating Angular Routes using Guards

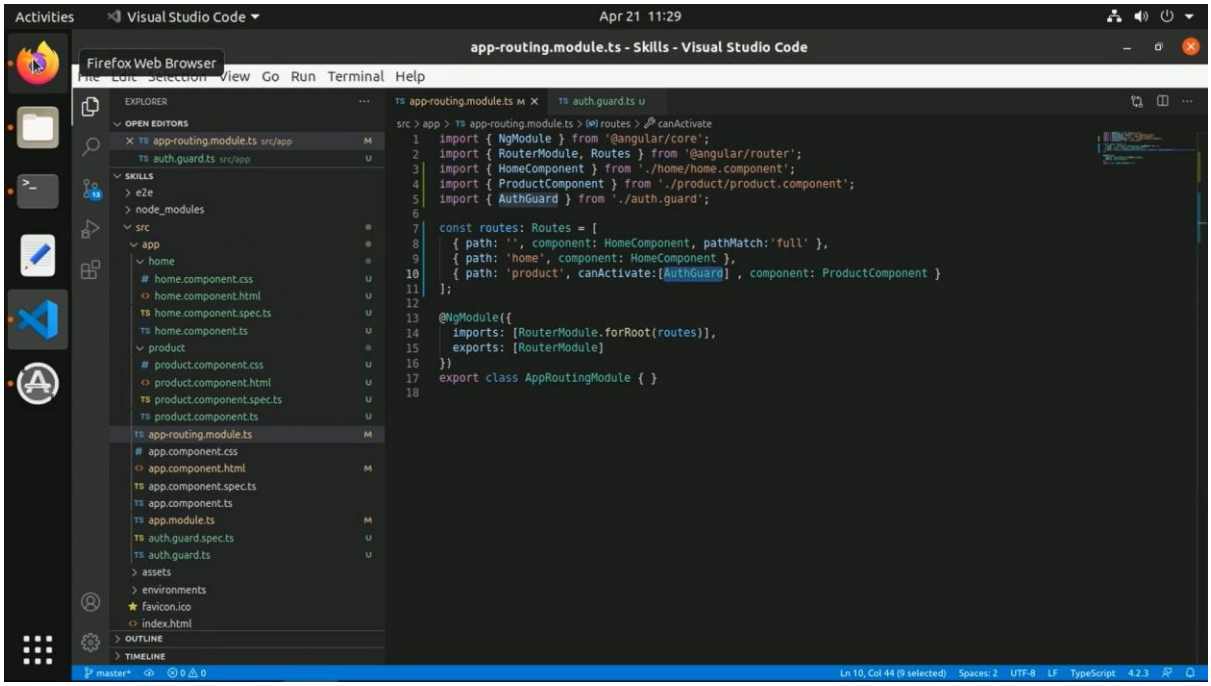
Ng g guard Auth

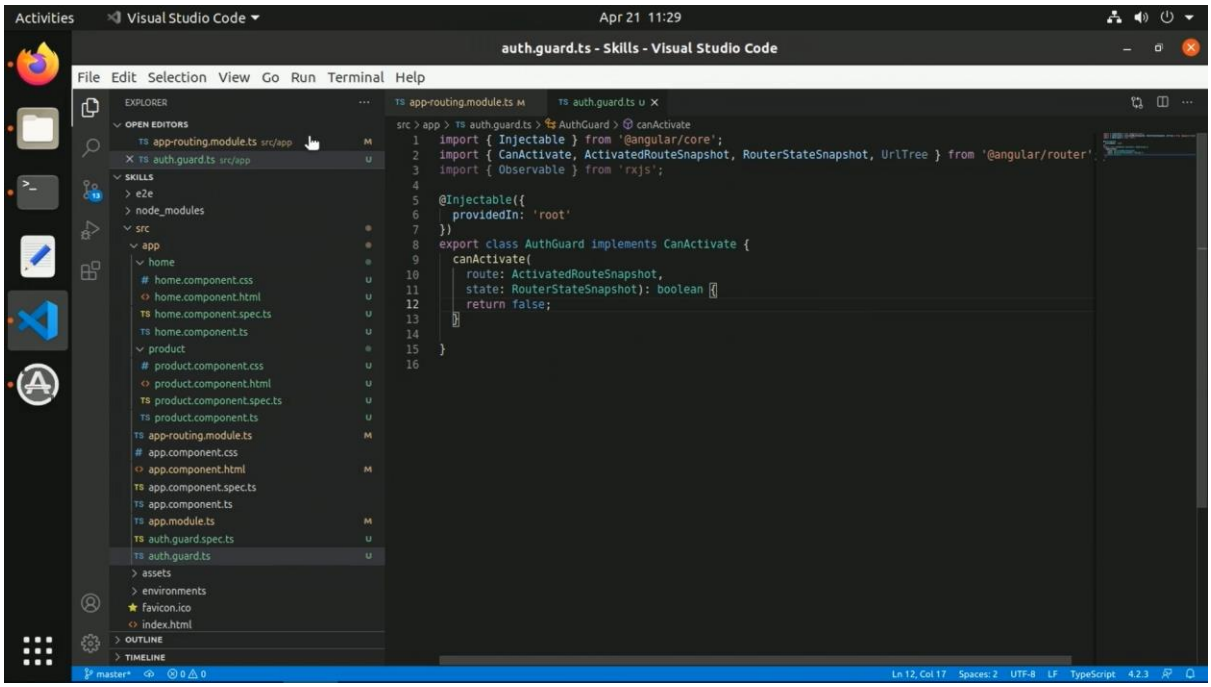

Activities
Terminal
Apr 21 11:26
axle@pc0481: ~/Documents/Skills
axle@pc0481: ~/Documents/Skills
axle@pc0481: ~/Documents/Skills
axle@pc0481:~/Documents/Skills$ ng g guard Auth
? Which interfaces would you like to implement? (Press <space> to select, <a> to toggle all, <i> to invert selection)
CanActivate
CanActivateChild
CanDeactivate
CanLoad

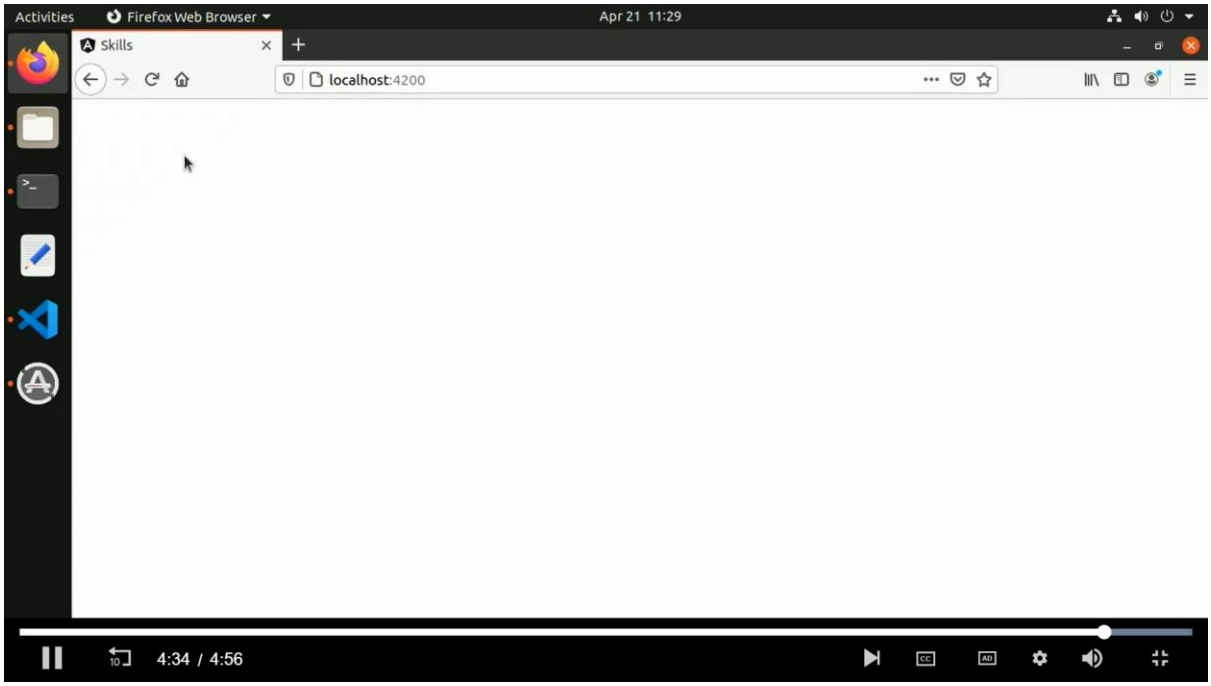

Activities
Terminal
Apr 21 11:26
axle@pc0481: ~/Documents/Skills
axle@pc0481: ~/Documents/Skills
axle@pc0481: ~/Documents/Skills
axle@pc0481:~/Documents/Skills$ ng g guard Auth
? Which interfaces would you like to implement? CanActivate
CREATE src/app/auth.guard.spec.ts (331 bytes)
CREATE src/app/auth.guard.ts (457 bytes)
1:29 / 4:56


Activities
Visual Studio Code
Apr 21 11:27
auth.guard.ts - Skills - Visual Studio Code
File Edit Selection View Go Run Terminal Help
EXPLORER
OPEN EDITORS
app-routing.module.ts src/app
auth.guard.ts src/app
SKILLS
e2e
node_modules
src
app
home
home.component.css
home.component.html
home.component.spec.ts
home.component.ts
product
product.component.css
product.component.html
product.component.spec.ts
product.component.ts
app-routing.module.ts
app.component.css
app.component.html
app.component.spec.ts
app.component.ts
app.module.ts
auth.guard.spec.ts
auth.guard.ts
assets
environments
favicon.ico
index.html
OUTLINE
TIMELINE
app-routing.module.ts M
auth.guard.ts U
src > app > auth.guard.ts > ...
import { Injectable } from '@angular/core';
import { CanActivate, ActivatedRouteSnapshot, RouterStateSnapshot, UrlTree } from '@angular/router';
import { Observable } from 'rxjs';
@Injectable({
providedIn: 'root'
})
export class AuthGuard implements CanActivate {
canActivate(
route: ActivatedRouteSnapshot,
state: RouterStateSnapshot): Observable<boolean | UrlTree> | Promise<boolean | UrlTree> | boole
return true;
}
}
master*
Ln 1, Col 1
Spaces: 2
UTF-8
LF
TypeScript
4.2.3


Activities
Visual Studio Code
Apr 21 11:28
auth.guard.ts - Skills - Visual Studio Code
File Edit Selection View Go Run Terminal Help
EXPLORER
OPEN EDITORS
app-routing.module.ts src/app
auth.guard.ts src/app
SKILLS
e2e
node_modules
src
app
home
home.component.css
home.component.html
home.component.spec.ts
home.component.ts
product
product.component.css
product.component.html
product.component.spec.ts
product.component.ts
app-routing.module.ts
app.component.css
app.component.html
app.component.spec.ts
app.component.ts
app.module.ts
auth.guard.spec.ts
auth.guard.ts
assets
environments
favicon.ico
index.html
OUTLINE
TIMELINE
app-routing.module.ts M
auth.guard.ts U
src > app > auth.guard.ts > AuthGuard
import { Injectable } from '@angular/core';
import { CanActivate, ActivatedRouteSnapshot, RouterStateSnapshot, UrlTree } from '@angular/router';
import { Observable } from 'rxjs';
@Injectable({
providedIn: 'root'
})
export class AuthGuard implements CanActivate {
canActivate(
route: ActivatedRouteSnapshot,
state: RouterStateSnapshot): boolean {
return true;
}
}
master*
Ln 14, Col 3
Spaces: 2
UTF-8
LF
TypeScript
4.2.3

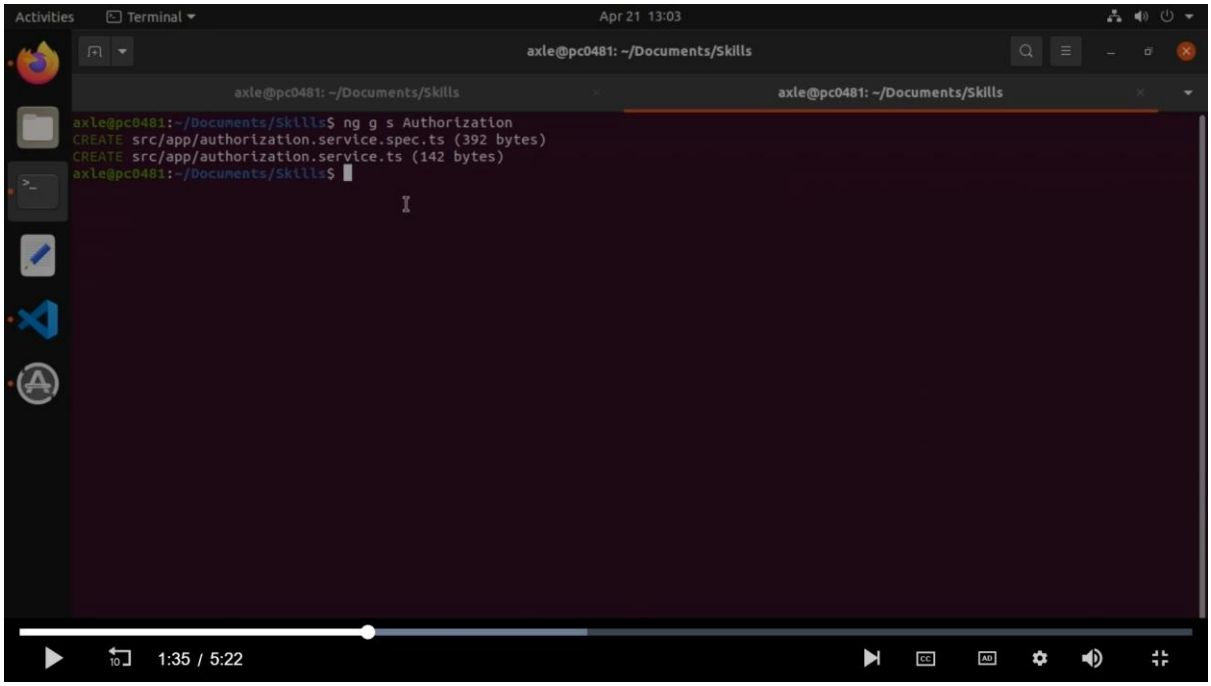

Activities
Visual Studio Code
Apr 21 11:29
app-routing.module.ts - Skills - Visual Studio Code
Firefox Web Browser
File Edit Selection View Go Run Terminal Help
EXPLORER
OPEN EDITORS
app-routing.module.ts src/app
auth.guard.ts src/app
SKILLS
e2e
node_modules
src
app
home
home.component.css
home.component.html
home.component.spec.ts
home.component.ts
product
product.component.css
product.component.html
product.component.spec.ts
product.component.ts
app-routing.module.ts
app.component.css
app.component.html
app.component.spec.ts
app.component.ts
app.module.ts
auth.guard.spec.ts
auth.guard.ts
assets
environments
favicon.ico
index.html
OUTLINE
TIMELINE
app-routing.module.ts
auth.guard.ts
src > app > app-routing.module.ts > routes > canActivate
import { NgModule } from '@angular/core';
import { RouterModule, Routes } from '@angular/router';
import { HomeComponent } from './home/home.component';
import { ProductComponent } from './product/product.component';
import { AuthGuard } from './auth.guard';
const routes: Routes = [
{ path: '', component: HomeComponent, pathMatch:'full' },
{ path: 'home', component: HomeComponent },
{ path: 'product', canActivate:[AuthGuard] , component: ProductComponent }
];
@NgModule({
imports: [RouterModule.forRoot(routes)],
exports: [RouterModule]
})
export class AppRoutingModule { }
master*
Ln 10, Col 44 (9 selected)
Spaces: 2
UTF-8
LF
TypeScript
4.2.3

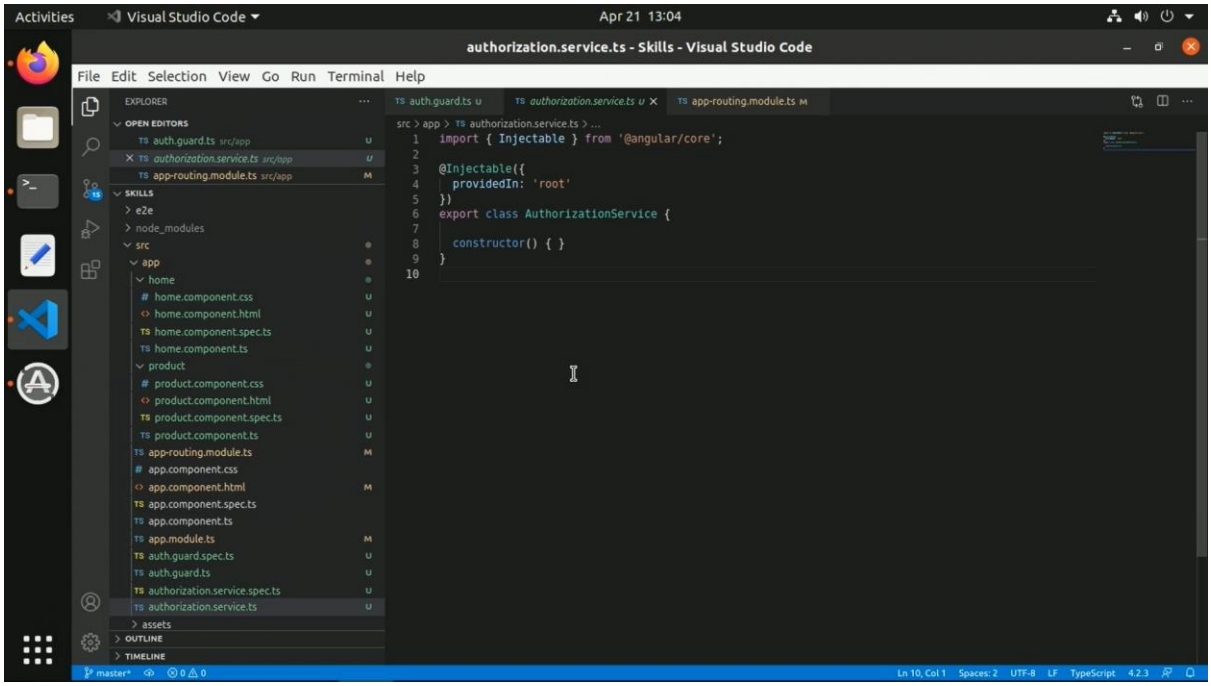

Activities
Visual Studio Code
Apr 21 11:29
auth.guard.ts - Skills - Visual Studio Code
File Edit Selection View Go Run Terminal Help
EXPLORER
OPEN EDITORS
app-routing.module.ts src/app
auth.guard.ts src/app
SKILLS
e2e
node_modules
src
app
home
home.component.css
home.component.html
home.component.spec.ts
home.component.ts
product
product.component.css
product.component.html
product.component.spec.ts
product.component.ts
app-routing.module.ts
app.component.css
app.component.html
app.component.spec.ts
app.component.ts
app.module.ts
auth.guard.spec.ts
auth.guard.ts
assets
environments
favicon.ico
index.html
OUTLINE
TIMELINE
app-routing.module.ts
auth.guard.ts
src > app > auth.guard.ts > AuthGuard > canActivate
import { Injectable } from '@angular/core';
import { CanActivate, ActivatedRouteSnapshot, RouterStateSnapshot, UrlTree } from '@angular/router';
import { Observable } from 'rxjs';
@Injectable({
providedIn: 'root'
})
export class AuthGuard implements CanActivate {
canActivate(
route: ActivatedRouteSnapshot,
state: RouterStateSnapshot): boolean {
return false;
}
}
master*
Ln 12, Col 17
Spaces: 2
UTF-8
LF
TypeScript
4.2.3

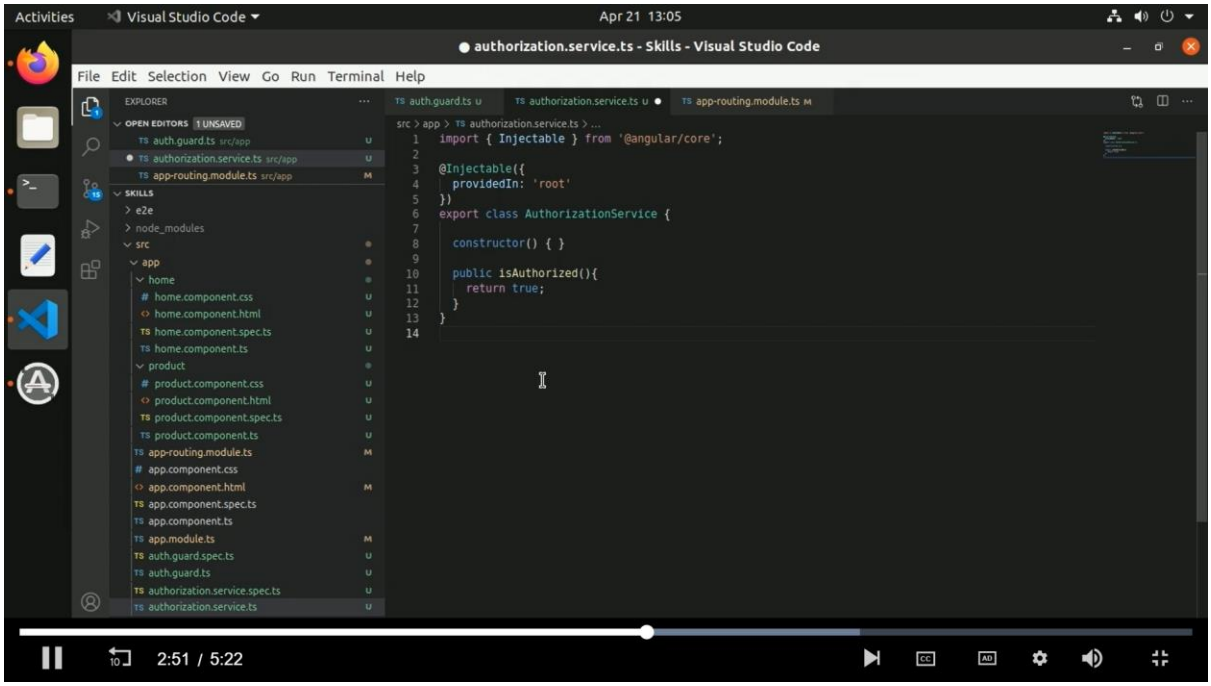


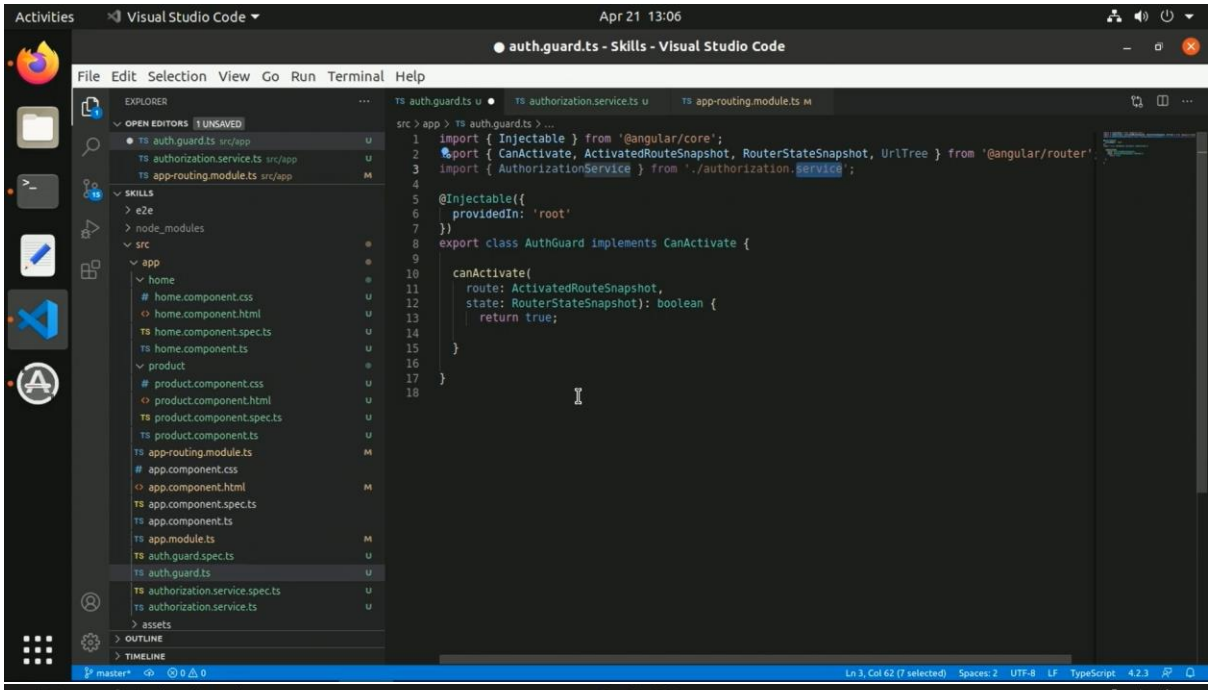
Protecting Angular Routes with Guards

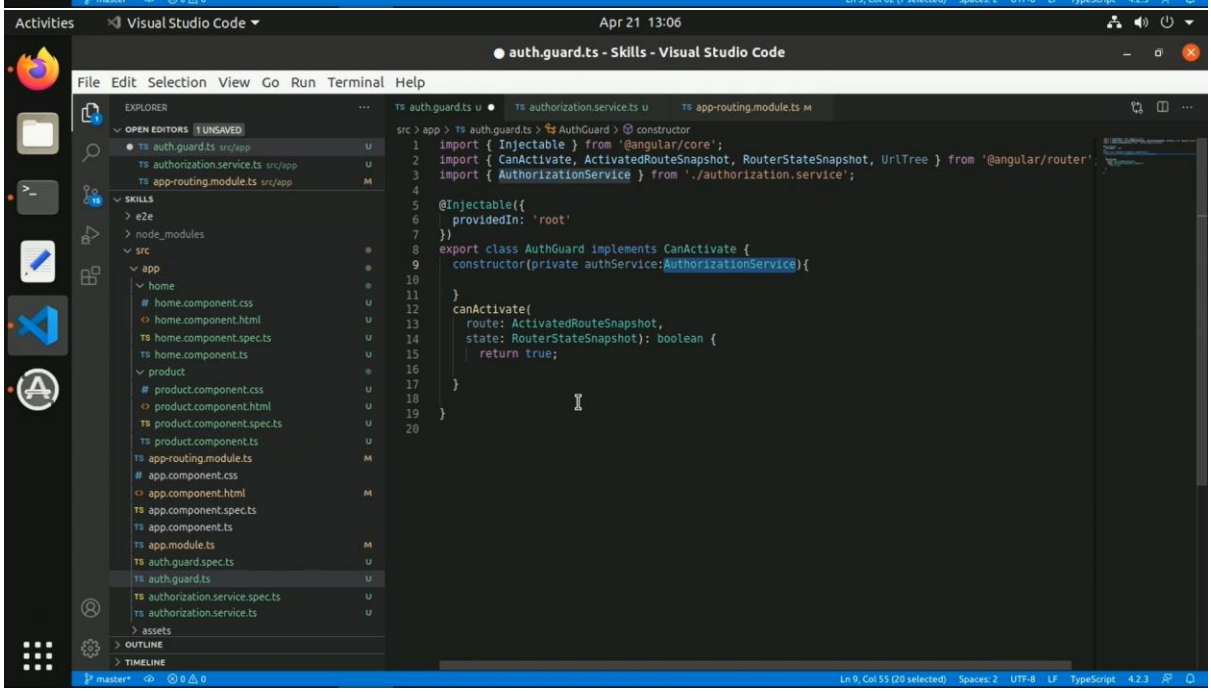
Ng g s Authorization

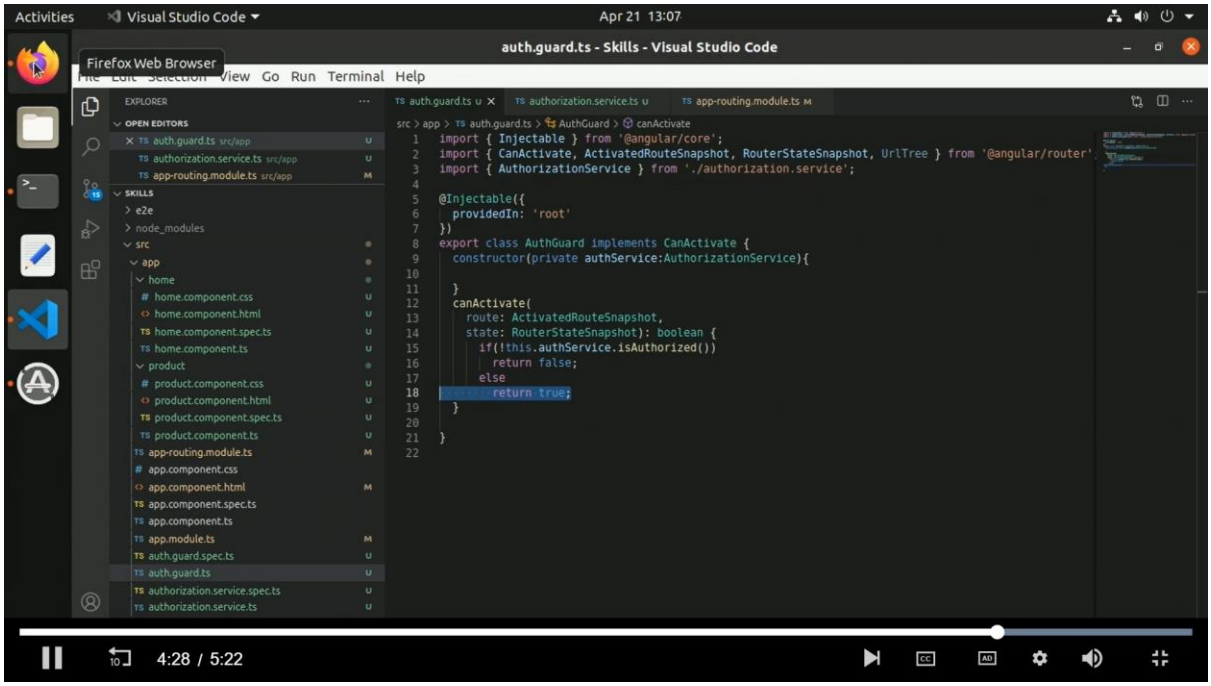


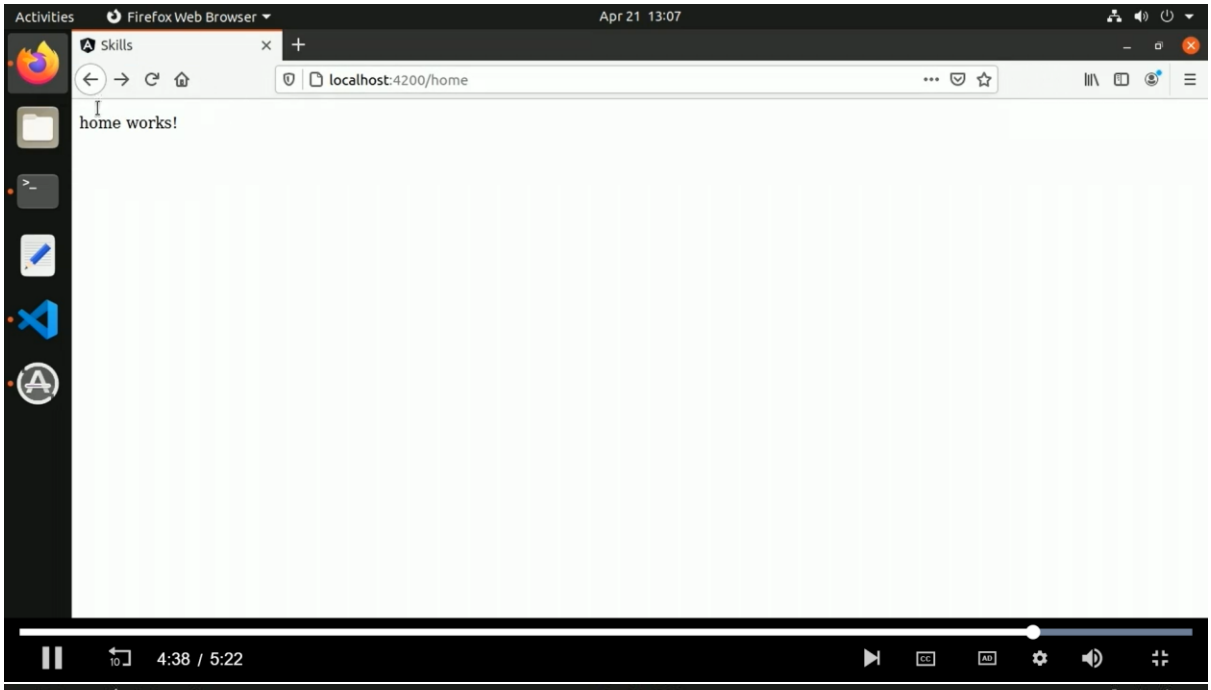

Activities
Visual Studio Code
Apr 21 13:04
authorization.service.ts - Skills - Visual Studio Code
File Edit Selection View Go Run Terminal Help
EXPLORER
OPEN EDITORS
auth.guard.ts src/app
authorization.service.ts src/app
app-routing.module.ts src/app
SKILLS
e2e
node_modules
src
app
home
home.component.css
home.component.html
home.component.spec.ts
home.component.ts
product
product.component.css
product.component.html
product.component.spec.ts
product.component.ts
app-routing.module.ts
app.component.css
app.component.html
app.component.spec.ts
app.component.ts
app.module.ts
auth.guard.spec.ts
auth.guard.ts
authorization.service.spec.ts
authorization.service.ts
assets
OUTLINE
TIMELINE
auth.guard.ts u
authorization.service.ts u
app-routing.module.ts M
src > app > authorization.service.ts > ...
import { Injectable } from '@angular/core';
@Injectable({
providedIn: 'root'
})
export class AuthorizationService {
constructor() { }
}
master*
Ln 10, Col 1
Spaces: 2
UTF-8
LF
TypeScript
4.2.3

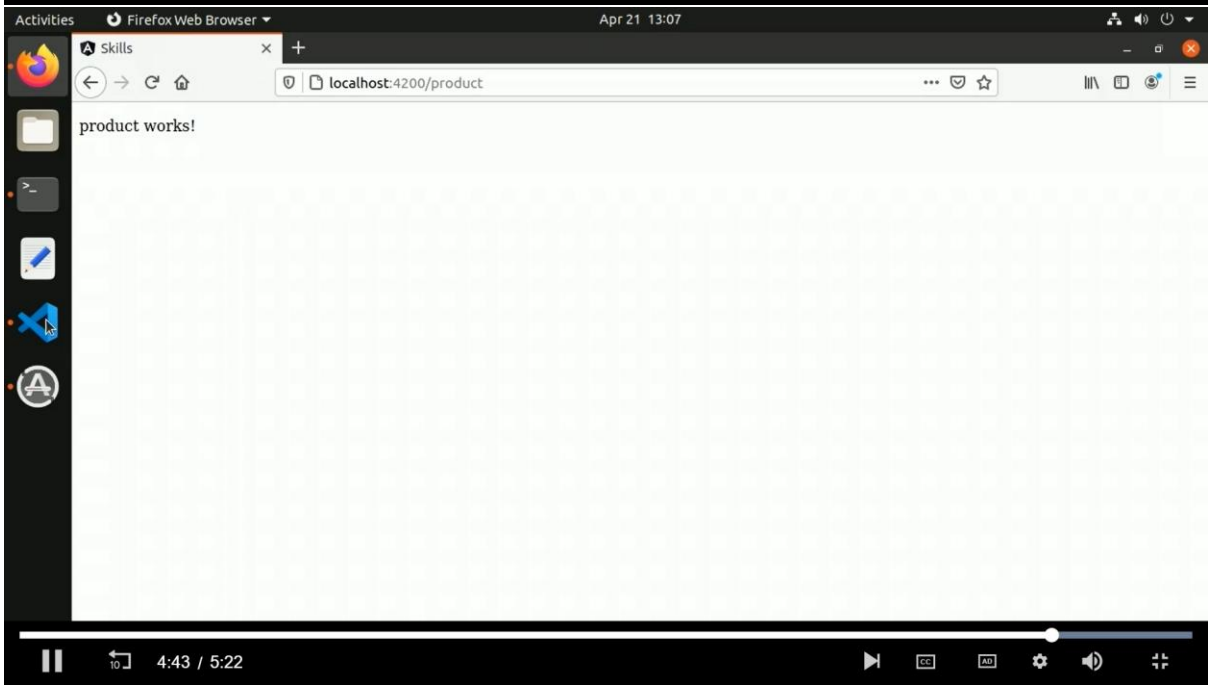

Activities
Visual Studio Code
Apr 21 13:05
● authorization.service.ts - Skills - Visual Studio Code
File Edit Selection View Go Run Terminal Help
EXPLORER
OPEN EDITORS 1 UNSAVED
auth.guard.ts src/app
authorization.service.ts src/app
app-routing.module.ts src/app
SKILLS
e2e
node_modules
src
app
home
home.component.css
home.component.html
home.component.spec.ts
home.component.ts
product
product.component.css
product.component.html
product.component.spec.ts
product.component.ts
app-routing.module.ts
app.component.css
app.component.html
app.component.spec.ts
app.component.ts
app.module.ts
auth.guard.spec.ts
auth.guard.ts
authorization.service.spec.ts
authorization.service.ts
auth.guard.ts u
authorization.service.ts u ●
app-routing.module.ts M
src > app > authorization.service.ts > ...
import { Injectable } from '@angular/core';
@Injectable({
providedIn: 'root'
})
export class AuthorizationService {
constructor() { }
public isAuthorized(){
return true;
}
}
2:51 / 5:22

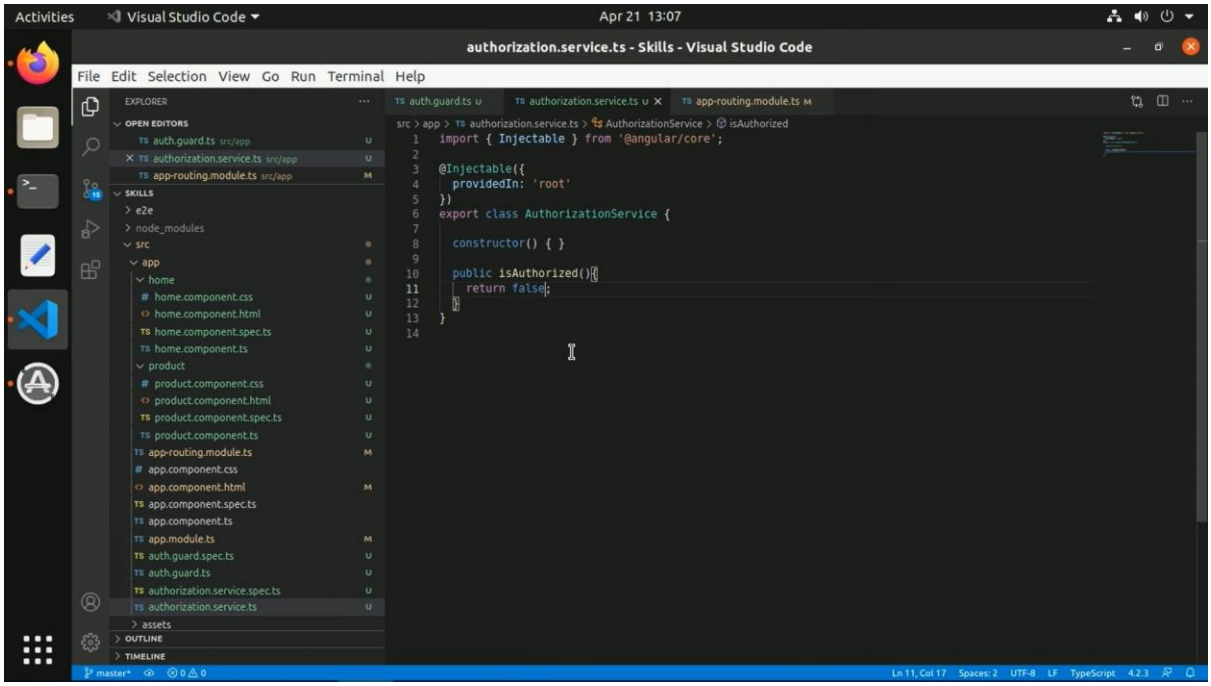

Activities
Visual Studio Code
Apr 21 13:06
auth.guard.ts - Skills - Visual Studio Code
File Edit Selection View Go Run Terminal Help
EXPLORER
OPEN EDITORS 1 UNSAVED
auth.guard.ts src/app
authorization.service.ts src/app
app-routing.module.ts src/app
SKILLS
e2e
node_modules
src
app
home
home.component.css
home.component.html
home.component.spec.ts
home.component.ts
product
product.component.css
product.component.html
product.component.spec.ts
product.component.ts
app-routing.module.ts
app.component.css
app.component.html
app.component.spec.ts
app.component.ts
app.module.ts
auth.guard.spec.ts
auth.guard.ts
authorization.service.spec.ts
authorization.service.ts
assets
OUTLINE
TIMELINE
auth.guard.ts
authorization.service.ts
app-routing.module.ts
src > app > auth.guard.ts > ...
import { Injectable } from '@angular/core';
import { CanActivate, ActivatedRouteSnapshot, RouterStateSnapshot, UrlTree } from '@angular/router';
import { AuthorizationService } from './authorization.service';
@Injectable({
providedIn: 'root'
})
export class AuthGuard implements CanActivate {
canActivate(
route: ActivatedRouteSnapshot,
state: RouterStateSnapshot): boolean {
return true;
}
}
master*
Ln 3, Col 62 (7 selected)
Spaces: 2
UTF-8
LF
TypeScript
4.2.3

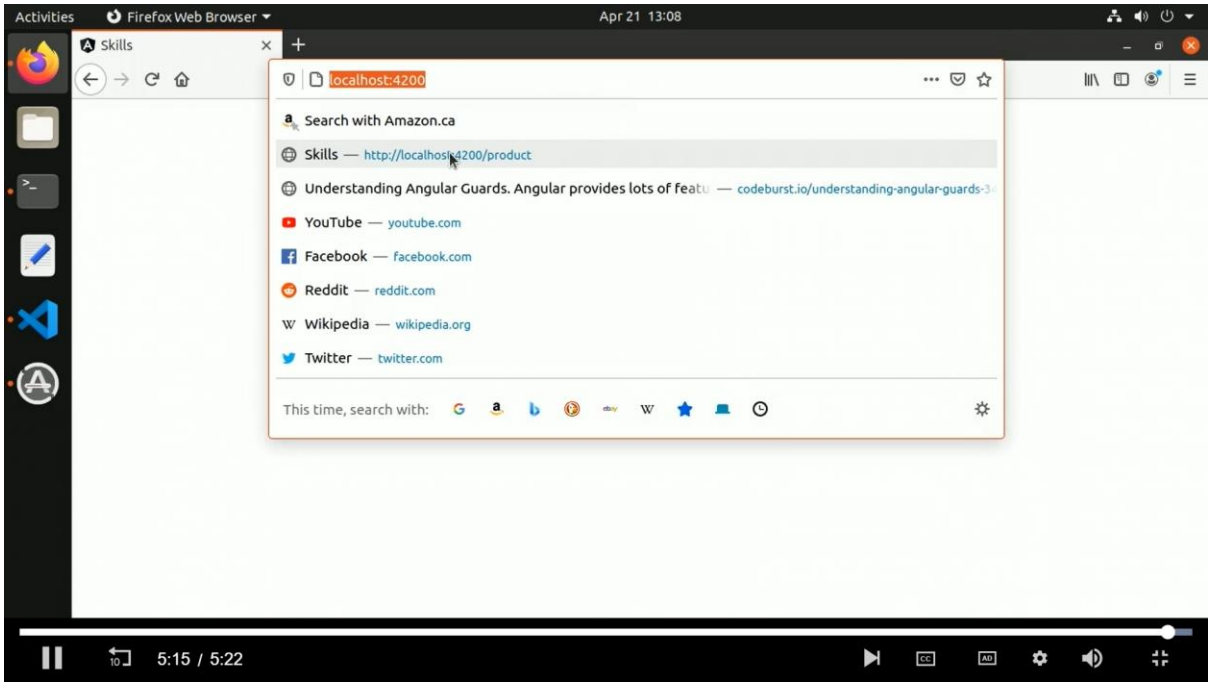

Activities
Visual Studio Code
Apr 21 13:06
auth.guard.ts - Skills - Visual Studio Code
File Edit Selection View Go Run Terminal Help
EXPLORER
OPEN EDITORS 1 UNSAVED
auth.guard.ts src/app
authorization.service.ts src/app
app-routing.module.ts src/app
SKILLS
e2e
node_modules
src
app
home
home.component.css
home.component.html
home.component.spec.ts
home.component.ts
product
product.component.css
product.component.html
product.component.spec.ts
product.component.ts
app-routing.module.ts
app.component.css
app.component.html
app.component.spec.ts
app.component.ts
app.module.ts
auth.guard.spec.ts
auth.guard.ts
authorization.service.spec.ts
authorization.service.ts
assets
OUTLINE
TIMELINE
auth.guard.ts
authorization.service.ts
app-routing.module.ts
src > app > auth.guard.ts > AuthGuard > constructor
import { Injectable } from '@angular/core';
import { CanActivate, ActivatedRouteSnapshot, RouterStateSnapshot, UrlTree } from '@angular/router';
import { AuthorizationService } from './authorization.service';
@Injectable({
providedIn: 'root'
})
export class AuthGuard implements CanActivate {
constructor(private authService:AuthorizationService){
}
canActivate(
route: ActivatedRouteSnapshot,
state: RouterStateSnapshot): boolean {
return true;
}
}
master*
Ln 9, Col 55 (20 selected)
Spaces: 2
UTF-8
LF
TypeScript
4.2.3


Activities
Visual Studio Code
Apr 21 13:07
auth.guard.ts - Skills - Visual Studio Code
Firefox Web Browser
File Edit Selection View Go Run Terminal Help
EXPLORER
OPEN EDITORS
auth.guard.ts src/app
authorization.service.ts src/app
app-routing.module.ts src/app
SKILLS
e2e
node_modules
src
app
home
home.component.css
home.component.html
home.component.spec.ts
home.component.ts
product
product.component.css
product.component.html
product.component.spec.ts
product.component.ts
app-routing.module.ts
app.component.css
app.component.html
app.component.spec.ts
app.component.ts
app.module.ts
auth.guard.spec.ts
auth.guard.ts
authorization.service.spec.ts
authorization.service.ts
auth.guard.ts
authorization.service.ts
app-routing.module.ts
src > app > auth.guard.ts > AuthGuard > canActivate
import { Injectable } from '@angular/core';
import { CanActivate, ActivatedRouteSnapshot, RouterStateSnapshot, UrlTree } from '@angular/router';
import { AuthorizationService } from './authorization.service';
@Injectable({
providedIn: 'root'
})
export class AuthGuard implements CanActivate {
constructor(private authService:AuthorizationService){
}
canActivate(
route: ActivatedRouteSnapshot,
state: RouterStateSnapshot): boolean {
if(!this.authService.isAuthorized())
return false;
else
return true;
}
}
4:28 / 5:22


Activities
Firefox Web Browser
Apr 21 13:07
Skills
localhost:4200/home
home works!
4:38 / 5:22


Activities
Firefox Web Browser
Apr 21 13:07
Skills
localhost:4200/product
product works!
4:43 / 5:22

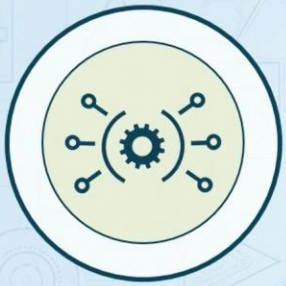

Activities
Visual Studio Code
Apr 21 13:07
authorization.service.ts - Skills - Visual Studio Code
File Edit Selection View Go Run Terminal Help
EXPLORER
OPEN EDITORS
auth.guard.ts src/app
authorization.service.ts src/app
app-routing.module.ts src/app
SKILLS
e2e
node_modules
src
app
home
home.component.css
home.component.html
home.component.spec.ts
home.component.ts
product
product.component.css
product.component.html
product.component.spec.ts
product.component.ts
app-routing.module.ts
app.component.css
app.component.html
app.component.spec.ts
app.component.ts
app.module.ts
auth.guard.spec.ts
auth.guard.ts
authorization.service.spec.ts
authorization.service.ts
assets
OUTLINE
TIMELINE
auth.guard.ts
authorization.service.ts
app-routing.module.ts
src > app > authorization.service.ts > AuthorizationService > isAuthorized
import { Injectable } from '@angular/core';
@Injectable({
providedIn: 'root'
})
export class AuthorizationService {
constructor() { }
public isAuthorized(){
return false;
}
}
master*
Ln 11, Col 17
Spaces: 2
UTF-8
LF
TypeScript
4.2.3


Activities
Firefox Web Browser
Apr 21 13:08
Skills
localhost:4200
Search with Amazon.ca
Skills — http://localhost:4200/product
Understanding Angular Guards. Angular provides lots of feat — codeburst.io/understanding-angular-guards-3
YouTube — youtube.com
Facebook — facebook.com
Reddit — reddit.com
Wikipedia — wikipedia.org
Twitter — twitter.com
This time, search with:
5:15 / 5:22

Navigation and Routing in Angular

- Anatomy of single-page architectures
- Routing in Angular
- Configuring Angular routes
- Passing parameters and activating routes
- Protecting routes with guards

Coming Up Next . . .



Dependency Injection with Angular

Services in Angular