1. **PS F:\IVS\VWS2> ng new Tascomm**
2. **ng g c Pages/sign-in --module app**
3. **Would you like to add Angular routing? Yes**
4. **ng generate module app-routing --flat --module=app(if forgot at first)**
5. import {Route, Routes , **RouterModule**}
6. **Which stylesheet format would you like to use? SCSS [** [**https://sass-lang.com/documentation/syntax#scss**](https://sass-lang.com/documentation/syntax#scss)
7. **serve --port 8080**
8. **ng generate component *directory*/ColumnBoard**
9. **ng add @angular/material**
10. **ng generate(g) service services(directory)/slider => in appModule file add providers[SliderService]**
11. **in appModule in imports add HttpClientModule**
12. **download Extension allow cors for chrom and enable it**
13. **npm install --save jquery**
14. **npm install --save @types/jquery میتوانیم در تایپ اسکریپت جی کوئری بنویسیم**
15. **in angular.json in scripts add the address**

export class SliderService {  
  
 constructor(private http: HttpClient) {  
  
 }  
  
 public GetSliders(): Observable<{ status: string, data: object }> {  
 return this.http.get<{ status: string, data: object }>('https://localhost:44339/slider/getactivesliders');  
 }  
  
}

1. **add DTO(data transfer object) directory to app folder**
2. **when creating a service add it manually in providers in appModule**
3. routerLink="../sign-in"
4. npm install ngx-cookie-service --save
5. import { CookieService } from 'ngx-cookie-service'; appModule
6. npm i angularx-social-login to sign in with google
7. https://github.com/abacritt/angularx-social-login

**ng - - version**

shift shift -> search in web storm for files

shift + F6 -> rename

observable components are rendered with any chenge

وقتی برنامه در حال اجرا است بعضی تغییرات منجر به خط قرمز در web storm می شود

ارور missing from compilation ممکن است در app.module ایمپورت ها درست نباشند مثل page به جای Page

Export const x = 2; در جای دیگر با import به ان دسترسی داریم(رابطه ی بین کامپوننت ها)

An unhandled exception occurred: Job name "..getProjectMetadata" does not exist.

See "C:\Users\ASUS\AppData\Local\Temp\ng-bqgc18\angular-errors.log" for further details.