

Property 'X' is private and only accessible within class 'xyzComponent'

Asked 2 years, 4 months ago Active 2 months ago Viewed 32k times



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I'm trying to build angular2 application for **production** for that I'm following this [blog](#). After my **ngc** successful compilation when the **tsc** compilation takes place it generates below error shown in the image:

```
527   const currVal_84_0:any = (((this.context.contextCount === 0) && this.context.token);
compiled/rewards/home-preview.component.ngfactory.ts(527,83): error TS2339: Property 'token' does not exist on type 'HomePreviewComponent'.

530   const currVal_86_0:boolean = !this.context.token;
compiled/rewards/home-preview.component.ngfactory.ts(530,50): error TS2339: Property 'token' does not exist on type 'HomePreviewComponent'.

117   const currVal_2_0:any = (((this.context.rewards.points !== '') && (this.context.rewards.instructions !== ''));
compiled/rewards/voucher.component.ngfactory.ts(117,94): error TS2339: Property 'instructions' does not exist on type 'VoucherReward'.

727   const currVal_77_0:any = (((this.context.freeDownloadCount !== (null as any)) && this.context.storageService.isLoggedIn);
compiled/shared/header/header.component.ngfactory.ts(727,100): error TS2341: Property 'storageService' is private and only accessible within class 'HeaderComponent'.

389   const currVal_10_0:any = this.context.errorMessage;
compiled/user/forget-password/forget-password.component.ngfactory.ts(389,45): error TS2339: Property 'errorMessage' does not exist on type 'ForgetPasswordComponent'.

494   const currVal_10_0:any = this.context.errorMessage;
compiled/user/reset-password/reset-password.component.ngfactory.ts(494,45): error TS2339: Property 'errorMessage' does not exist on type 'ResetPasswordComponent'.

1372  const currVal_163_0:any = this.context.storageService.months;
compiled/user/signup/facebook-signup.component.ngfactory.ts(1372,46): error TS2341: Property 'storageService' is private and only accessible within class 'FacebookSignupComponent'.

1385  const currVal_168_0:any = this.context.storageService.dates;
compiled/user/signup/facebook-signup.component.ngfactory.ts(1385,46): error TS2341: Property 'storageService' is private and only accessible within class 'FacebookSignupComponent'.

1398  const currVal_173_0:any = this.context.storageService.years;
compiled/user/signup/facebook-signup.component.ngfactory.ts(1398,46): error TS2341: Property 'storageService' is private and only accessible within class 'FacebookSignupComponent'.

1363  const currVal_163_0:any = this.context.storageService.months;
compiled/user/signup/twitter-signup.component.ngfactory.ts(1363,46): error TS2341: Property 'storageService' is private and only accessible within class 'TwitterSignupComponent'.

1376  const currVal_168_0:any = this.context.storageService.dates;
compiled/user/signup/twitter-signup.component.ngfactory.ts(1376,46): error TS2341: Property 'storageService' is private and only accessible within class 'TwitterSignupComponent'.

1389  const currVal_173_0:any = this.context.storageService.years;
```

After searching for a while I found this [blog](#) which explains the problem in "**The context property**" section which I'm not able to understand properly may be it give some good idea to you that what's happening wrong. basically when we're making a variable private

we're getting **"ERROR: Property is private and only accessible within class"**. I'm not understanding why is it coming.

Kindly help us as we're banging our head in this problem for past couple of days.

 angular  typescript  typescript-typings  angular2-aot

edited Apr 2 '17 at 8:39

user663031

asked Mar 31 '17 at 13:10



Sumit Khanduri

1,214 4 17 36

have you tried to change the property from private to public? – [Xin Meng](#) Mar 31 '17 at 13:18

can you please share ts file content which is throwing error? – [Rajkishor Sahu](#) Mar 31 '17 at 13:36

4 Answers



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For a given component all its members (methods, properties) accessed by its template must be public in the AOT compilation scenario. This is due to the fact that a template is turned into a TS class. A generated class and a component are 2 separate classes now and you can't access private members cross-class.



In short: you can't access private members in your templates if you want to use ahead-of-time compilation.



For better explanation <https://github.com/angular/angular/issues/11422>

answered Apr 3 '17 at 5:52



harish gadiya

1,084 8 8



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Maybe another even simpler answer is:

Guys don't call private methods, fields or properties from the HTML :)



P.S. when compiling the *.ts code to *.js , [AOT](#) refuse to connect non-public members with the **HTML** template.

edited Mar 15 at 9:10

answered May 23 '18 at 19:26



Arsen Khachatryan

3,758 1 18 27

1 Or access private fields/properties! – JMK Jan 24 at 0:12



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So I fixed this problem I'll keep this short and simple. To fix this I read this [blog](#) deeply. As in section "**The context property**" The solution for this problem is that *Don't use or create a private variable if you want to use it in the view directly when your are creating your build with AOT (i.e., **Ahead Of Time**) for production.*

***for Example ***

```
// component.ts
@Component({
  selector: 'third-party',
  template: `
    {{ _initials }}
  `
})
class ThirdPartyComponent {
  private _initials: string;
  private _name: string;

  @Input()
  set name(name: string) {
    if (name) {
      this._initials = name.split(' ').map(n => n[0]).join('. ') + '.';
      this._name = name;
    }
  }
}
```

output: *Property '_initials' is private and only accessible within class 'ThirdPartyComponent'.*

Solution:

update this private _initials: string; to simply _initials: string;

For this answer [Harish Gadiya](#) provide me some help so thanx for that.

edited May 23 '17 at 12:02



Community ♦

1 1

answered Apr 5 '17 at 6:56



Sumit Khanduri

1,214 4 17 36

dont need to use `_name` there, it can be the same as you using `this`. and other `name` its a local variable `this.name=name;` – [LazerBanana](#) Feb 21 '18 at 15:12

Thanks! Helpful for me. – [manojadams](#) May 18 '18 at 17:57



I got this when I declared private injectables in the constructor:

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```
constructor(private service: SpecificObjectService) { }
```



And used them in the template:

```
*ngFor="let pd of service.listSpecificObject "
```

The solution is:

```
constructor(public service: SpecificObjectService) { }
```

answered May 16 at 15:52



TiyebM

1,379 12 36

