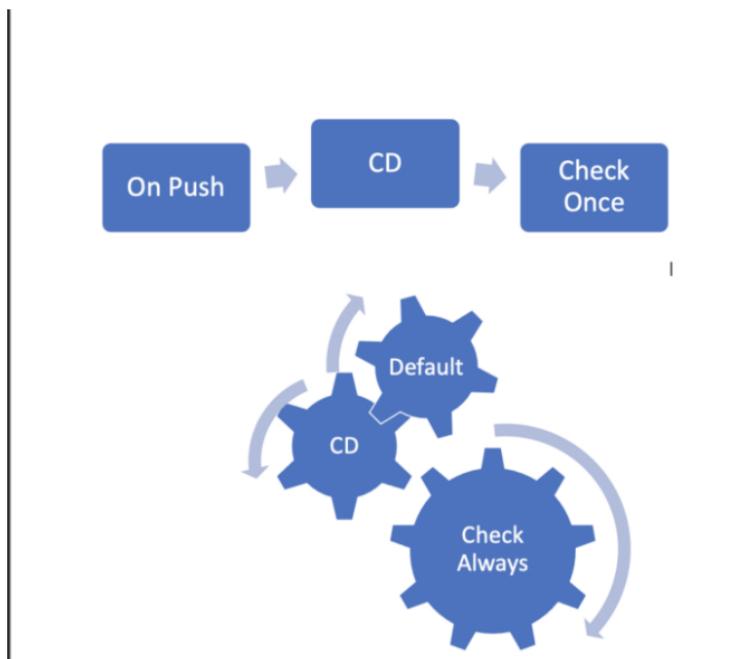


How is changing the CD strategy from Default to onPush impact component? mostly asked interview Question



ACHARYA ANIL SURYAVANSHI May 8 · 3 min read



Angular default Change Detection runs on every change it is also called as Check Always. So changing it for optimizing performance to OnPush (also called CheckOnce).

In Default Strategy CD triggers at following times

1. Input Event
2. Browser Event
3. SetTimeout
4. SetInterval
5. XHR Api request
6. Promise

For OnPush Main change only trigger when

1. Input property reference change
2. Browser Event triggered by component or its children.

If We need to trigger manually We have to use by changeDetectorRef methods

Detach: — Detach the view from CD tree.

MarkForcheck :- Mark view as change.

Reattach : — Reattach the View to CD tree

checkNoChange :- Check if there any changes

Detect Changes: — check the view and its children

If we don't want use methods in OnPush then also some tweaks

1. Emission of an observable event subscribed with Async pipe

Benefits :-

1. No Unnecessary Dirty Check in the Child Components
2. Faster Component Re-rendering

Some time there is a case for running Change Detection for Whole app then we can use ApplicationRef.tick() — which tells Angular to run change detection for the whole application.

Case of Object Mutability

Two Component Parent and Child

Parent

```
import { Component, OnInit } from '@angular/core';

@Component({
  selector: 'myh-main',
  templateUrl: './main.component.html',
  styleUrls: ['./main.component.css']
})

export class MainComponent implements OnInit {

  constructor() {}

  house = {
    data:{ name:"Anil Kumar House"}
  }

  ngOnInit(): void {
  }
}
```

```
}
```

```
}
```

Parent HTML :

```
<input type="text" [(ngModel)]="house.data.name">  
  
<myh-house [House]="house"></myh-house>
```

Child Component

```
import { ChangeDetectionStrategy, Component, Input, OnInit } from  
'@angular/core';
```

```
@Component({  
  
  selector: 'myh-house',  
  
  templateUrl: './house.component.html',  
  
  styleUrls: ['./house.component.css'],  
  
  changeDetection:ChangeDetectionStrategy.Default  
  
})
```

```
export class HouseComponent implements OnInit {  
  
  constructor() {}
```

```
  @Input() House:any;  
  
  ngOnInit(): void {  
  
  }  
  
}
```

Child HTML

```
{{House|json}}
```

If changing Input Values

Output :-

```
Anil Kumar House {"data": {"name": "Anil Kumar House"}}
```

```
Anil Kumar House {"data": {"name": "Anil Kumar House"}}
```

Changing CD to OnPush

```
@Component({  
  selector: 'myh-house',  
  templateUrl: './house.component.html',  
  styleUrls: ['./house.component.css'],  
  changeDetection: ChangeDetectionStrategy.OnPush  
})
```

Output :

Anil Kumar Home {"data": {"name": "Anil Kumar House"}}

Request :-

Suggestion and improvement are open! Please do comments.



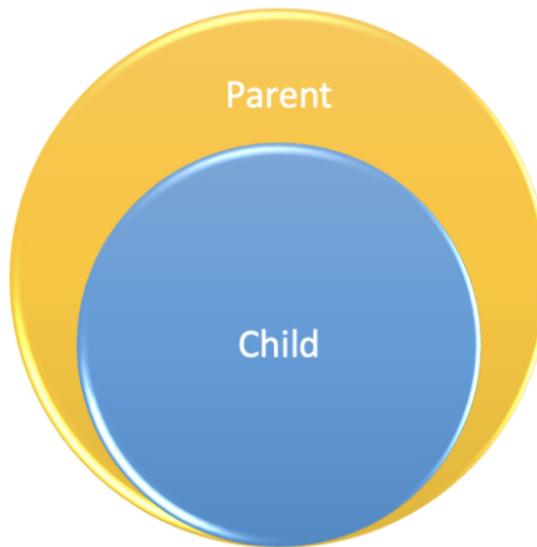
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May 4

How to send data from the Parent to Child component in Angular ? Mostly asked Interview Question



Parent Child Component

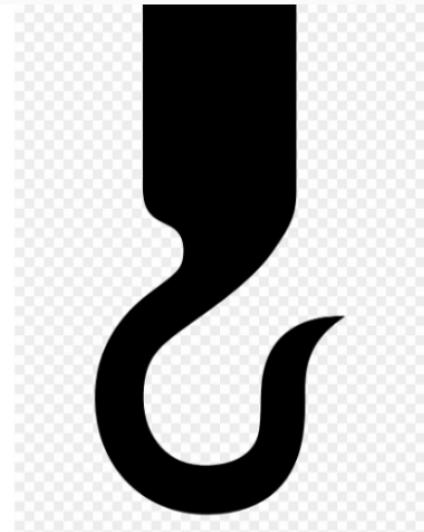
For Communicating in Parent Component and Child Component. There are many ways to do so. Whenever We use any component as selector inside view of Another component it become child component. So most of time we need to provide some data to child component.

Angular given us `@Input()` decorator in...

[Read more · 1 min read](#)

What are the life cycle hooks in Angular components? Angular Interview asked

question.



In An Angular app have lifecycle so its Unit also have. When component load its lifecycle start and lifecycle have hooks. Hooks are functions(events) triggered at various stage of Angular Change Detection.

We can respond to lifecycle hooks (events) by using interfaces as create, update and destroy.

1. ngOnChanges ...

[Read more · 2 min read](#)

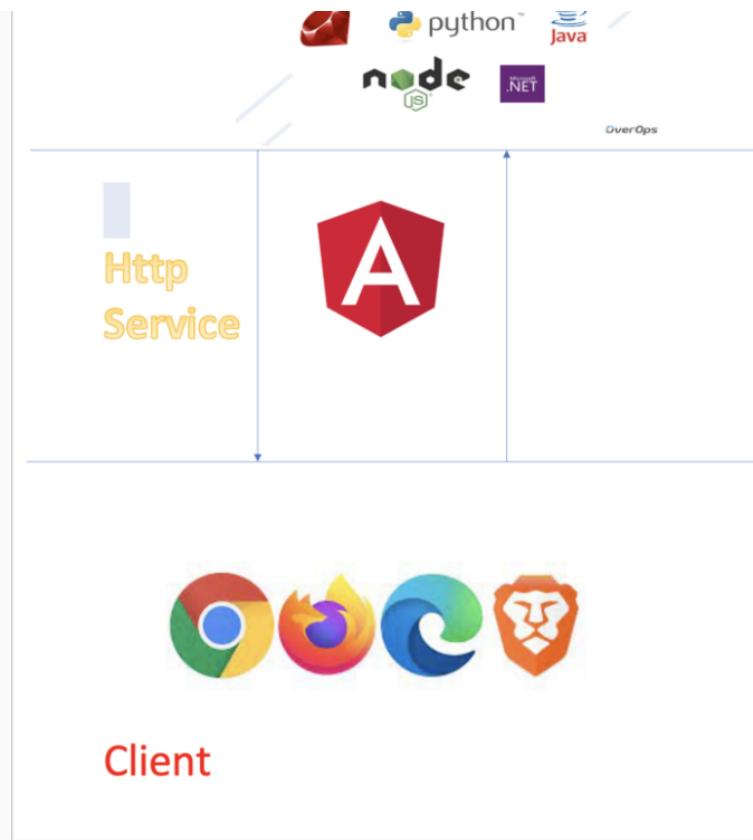


May 1

How to consume an JSON REST api (server)?

Server





A Rest api is accessible by any server path that communicates to the server from any client browser in case of angular. Angular provides us http service of Http module. Service have feature to request, error handling, interceptor, Rxjs observables and operators.

We need to Inject http module in the main module.

```
import { NgModule } from '@angular/core';
import { BrowserModule } from '@angular/platform-browser';
import { HttpClientModule } from '@angular/common/http';

@NgModule({
  imports: [
    BrowserModule,
    HttpClientModule,
  ],
  declarations: [
    AppComponent,
  ],
  bootstrap: [ AppComponent ]
})
export class AppModule {}
```

Then make common communication service using http service

```
import { Injectable } from '@angular/core';
import { HttpClient } from '@angular/common/http';
@Injectable()
export class ConfigService {
  constructor(private http: HttpClient) {}
```

Then make any kind of request get , post , put, delete

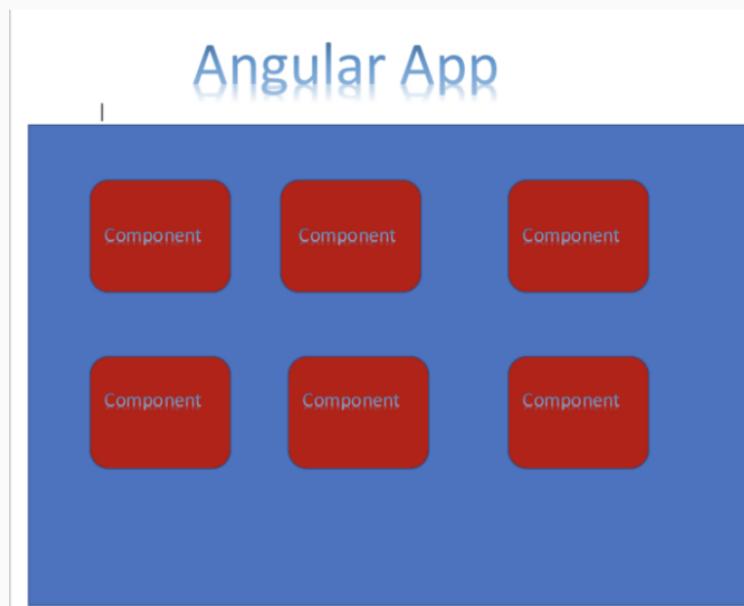
GET Request

```
getResponse(): Observable<HttpResponse<T>> {  
  return this.http.get<T>(  
    this.configUrl);  
}
```



May 1

What is the component in Angular?



Component is an element of the Angular app. They are the main building blocks. Each component is a type of directive. Component is made of class with Component metadata, html template, css selector and optionally css style apply to html template. Component have lifecycle hooks.

Cli command

```
ng g c app-component-overview
```

Syntax :-

```
@Component({  
  selector: 'app-component-overview',  
  templateUrl: './component-overview.component.html',  
  styleUrls: ['./component-overview.component.css']  
})  
export class ComponentOverviewComponent {  
}
```



Apr 11

Expert level Angular Interview Questions

Part -3



Performance and optimization

1. How to support accessibility ?
2. How to check version of angular app?
3. How to update old angular third party libraries?
4. What is a lightweight injection token?
5. Step to deploy angular app?
6. How to configure differential loading?
7. What is AOT ?
8. What are the phases included in compilation ?
9. What is...

[Read more · 2 min read](#)

5 1

Up ↑ Down ↓ ...