



# Angular

# WHY TO USE ANGULAR?

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- ANGULAR IS A JAVASCRIPT FRAMEWORK WHICH ALLOWS YOU TO BUILD REACTIVE SINGLE PAGE APPLICATIONS(SPAS)

# FEATURES OF ANGULAR

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- Consistency
- Maintainability
- Code Reusability
- Catch Errors Early
- Command Line Interface
- Productivity

- **Software Requirements for Angular Environment Setup:**

1. IDE (for writing code)
2. Node.js (Node.js is an open-source cross-platform JavaScript run-time environment)
3. NPM (NPM is node.js package manager for JavaScript programming language. It is automatically installed when we install node.js)
4. Typescript (It is the programming language)
5. Angular CLI (It is a tool that allows us to create a project, build and run the project in the development server directly using the command line command)

# ANGULAR CLI

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- `npm install -g @angular/cli`
- `ng new my-first-project`
- `cd my-first-project`
- `ng serve`

- Creating Angular Components
- Nested Angular Components
- Different Bindings in Angular
  - a. Interpolation Binding → {{ }}
  - b. Property Binding → []
  - c. Event Binding → ()

- Using Local References in templates
- @ViewChild('Any Variable in TS' , {static : true}) usrVariableName : ElementRef
  - Declare a local template variable in HTML file
- Ng-content
  - select="selector"  
Only select elements from the projected content that match the given CSS selector.

# Services and Dependency Injection in Angular



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

@Injectable({
  providedIn: 'root',
})
export class HeroService {
  constructor() { }
}
```

The `@Injectable()` decorator specifies that Angular can use this class in the DI system.

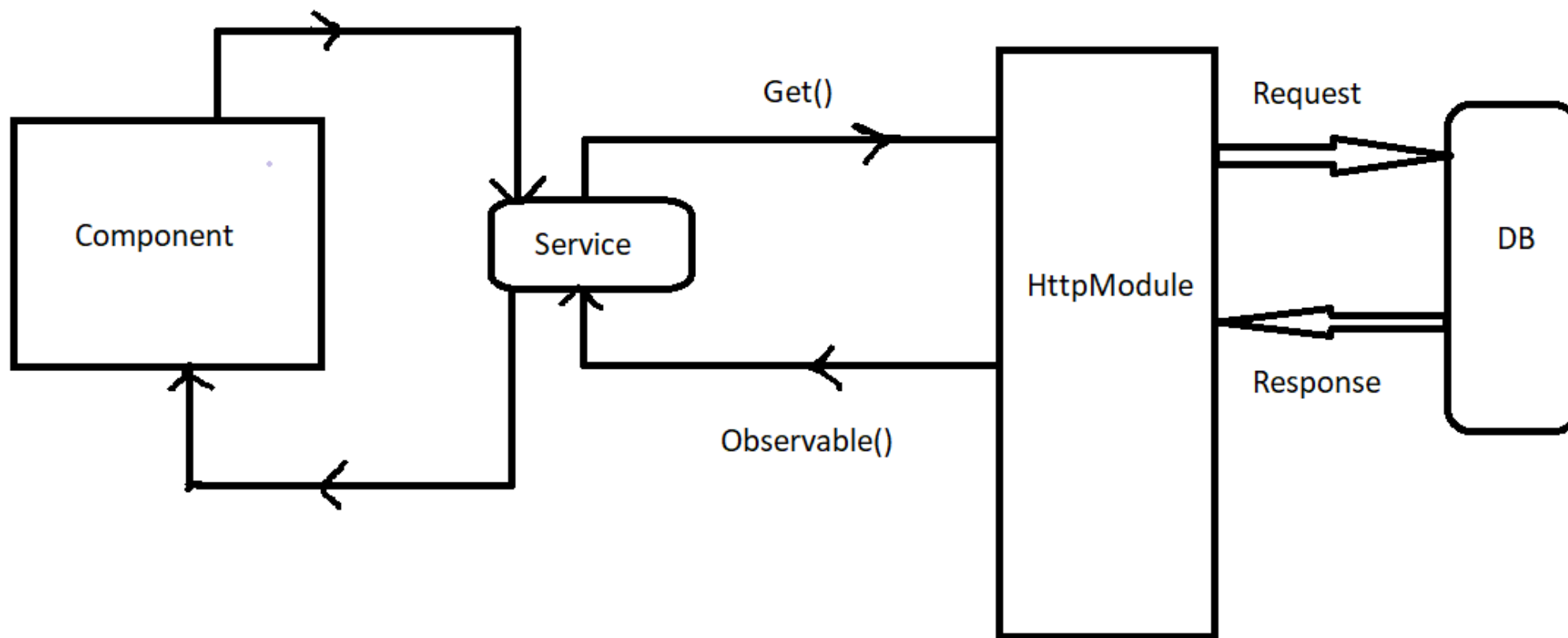
The metadata, `providedIn: 'root'`, means that the `HeroService` is visible throughout the application.

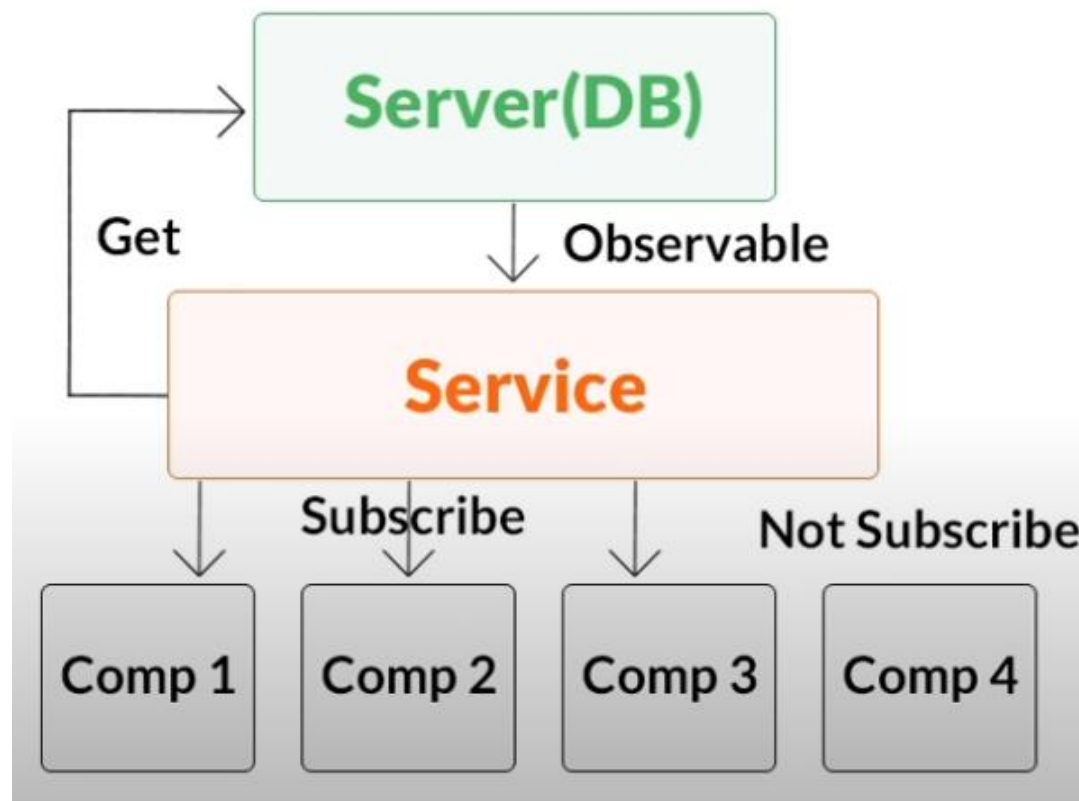


## Lifecycle

|                       |  |
|-----------------------|--|
| ngOnChanges           | Called after a bound input property changes                              |
| ngOnInit              | Called once the component is initialized                                 |
| ngDoCheck             | Called during every change detection run                                 |
| ngAfterContentInit    | Called after content (ng-content) has been projected into view           |
| ngAfterContentChecked | Called every time the projected content has been checked                 |
| ngAfterViewInit       | Called after the component's view (and child views) has been initialized |
| ngAfterViewChecked    | Called every time the view (and child views) have been checked           |
| ngOnDestroy           | Called once the component is about to be destroyed                       |

# HTTP & Observables







## Your Firebase projects



Add project

**http-angular-demo**

http-angular-demo-ccb53

# HTTP Requests

- POST/PUT
- GET with async pipe
- DELETE

