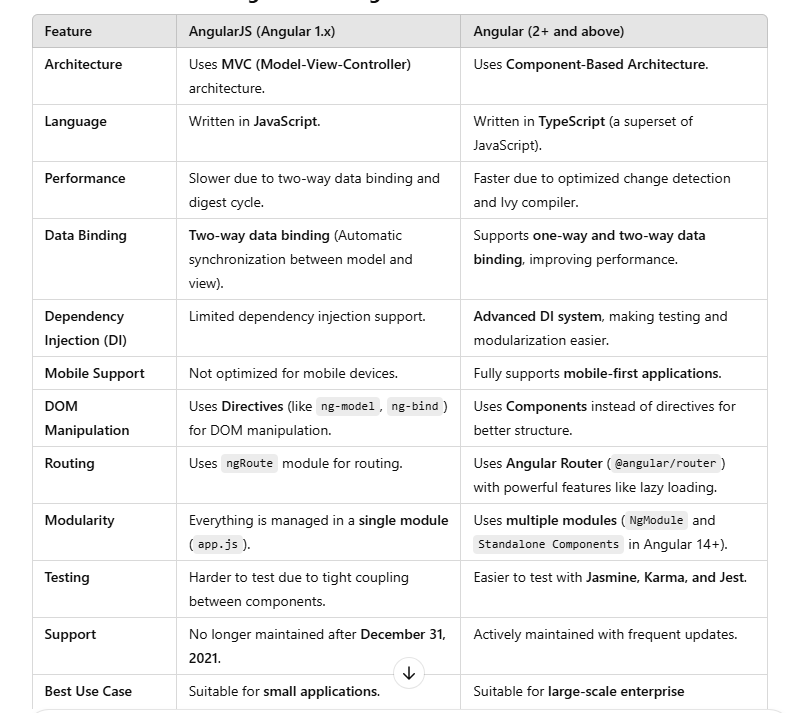
* **What the use of Angular?**

Angular is a JavaScript binding framework, which binds HTML UI with JavaScript model.

It is used to build SPA with the help of routing.

* **Differentiate between AngularJS vs Angular?**



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* **What are directives in Angular? and different types of Angular directives?**

Directive changes the behaviour of HTML DOM.

Angular syntax which can write inside HTML, so that we can change the behaviour of HTML DOM.

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Angular has three types of directives:

1. Component Directives (Most Common) → Customized user control. Directives with template (@Component)
2. Structural Directives → Change the DOM layout by adding or removing elements. (\*ngIf, \*ngFor, \*ngSwitch)
3. Attribute Directives → Modify the appearance or behaviour of an HTML element ([ngClass], [ngStyle], Custom directives)

* **Explain the importance of NPM and Node\_Modules folder?**

NPM is a package manager which makes installation of JavaScript library.

Node\_modules folder where all the packages are installed.

* **Explain the importance of Package.json file in Angular?**

It has all the reference of javascript references needed for the project.

* **What is typescript and why do we need it?**

It adds types to JavaScript or superset of JavaScript.

* **Explain importance of Angular CLI?**

Is a command line interface by which we can create Initial angular Project.

npm install @angilar/cli

* **Explain the importance of Component and Modules?**

Components is where you write your binding code whereas Module logically groups the component.

* **What is a decorator in Angular? Or What are Annotation or Metadata?**

Defines what king of angular class it is..

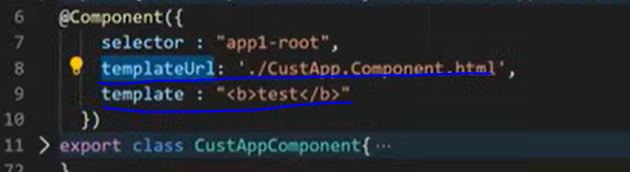
@component denotes Angular component.

@NgModule denotes Angular Module

* **What is a template?**

Template is an HTML view of Angular in which we can write directives.

Two types (inline and separate physical HTML file.)



* **Explain the four types of Data bindings in Angular?**

Databinding is the communication between the view and the component.

1. **Interpolation** - {{}} → One-way binding from component to view
2. **Property Binding** - [property] → One-way binding from component to an HTML element
3. **Event Binding** - (event) → One-way binding from UI to the component
4. **Two-Way Binding** - [(ngModel)] → Two-way sync between component and UI

* **Explain architecture of Angular?**

**⬇️ User Clicks a Button**

**┌──────────────────────────────────────────┐**

**│ COMPONENTS (UI + Logic) │**

**│ - app.component.ts (Controller) │**

**│ - app.component.html (View) │**

**└──────────────────────────────────────────┘**

**⬇️ Calls Service**

**┌──────────────────────────────────────────┐**

**│ SERVICES (Business Logic) │**

**│ - Fetch data from APIs │**

**│ - Perform calculations │**

**└──────────────────────────────────────────┘**

**⬇️ Uses DI to Fetch Data**

**┌──────────────────────────────────────────┐**

**│ DEPENDENCY INJECTION (DI) │**

**│ - Inject services into components │**

**└──────────────────────────────────────────┘**

**⬇️ Updates the UI**

**┌──────────────────────────────────────────┐**

**│ DIRECTIVES & PIPES │**

**│ - \*ngIf, \*ngFor (Structure) │**

**│ - ngClass, ngStyle (Styling) │**

**│ - Pipes (Data Transformation) │**

**└──────────────────────────────────────────┘**

* **What is SPA in Angular?**

SPA is single page Application where the main UI gets loaded ay once and the needed UI gets loaded on need.

* **How to implement SPA in Angular?**

We have to use Angular routing, Routing is a simple collection in Angular.

* **How to implement routing in Angular?**
* **Explain Lazy Loading ?**
* **How to implement Lazy Loading in Angular?**
* **Define Services?**
* **What is Depedency Injection?**
* **How to implement Depedency Injection?**
* **What’s the benefit of Depedency Injection?**

* **Differentiate between ng Serve and ng build?**
* **Explain the --prod parameter in ng build ?**