Angular Technical Round   (CHEAT SHEET)

What do you mean by the term SPA(single page applications)?

Why to use frameworks?

What is the difference between decorators & annotations?

What do you mean by dependency injection?

What are -> providers, injectors, consumers, registry,dependencies?

What is the registry concept?

What are factories ? Explain factory model?

Why is npm and node essential for running angular applications?

What is the difference between package.json & package.lock.json?

What happens when running a

1. Ng serve cmd
2. Ng build cmd

Explain the flow of angular application in brief?

What do you mean by term bootstrapping the application ?

What is the importance of the app.module.ts file?

What is change detection in angular? Explain life-cycle hooks?

What is the difference between ngOninit() vs constructor(){} inside the component?

What is a limitation or bugside of ngoninit() ?

What do you mean by terms Server-side rendering & client-side rendering?

What is a difference between the following:=>
    1. <ng-container>
    2. <ng-template>
    3. <ng-content>
    4. ViewChildern
    5. ViewChildrenRef
    6. TemplateRef
    7. ElementRef
    8. ContentChildren
    9. Template variable

Pipes or filters?

Template expression?

Built in pipes? Parameterized pipes?

Custom pipes?

Pipe chaining?

Pure pipes vs impure pipes?

Why are impure pipes heavy and complex tasks?

Explain async pipes ?

Directives?

What is the use of directives?

Explain the lifecycle and execution flow of directives?

What is the difference between components & directives?

Types of directives?

Custom directive?

What is the difference between the host listeners and host binding?

What are components? When the component gets loaded?

What is the minimal valid code of components in angular?

What is the difference between component constructor(){} and component oninit() function?

What is the difference between ngoninit() vs ngonchanges()?When to use out of the two give scenario explanations?

@component decorator inside the component?

What is the minimal code necessary for a component? Write the code?

View encapsulation?

Explain how you can establish communication between components?

Explain how you can establish a connection between components having no relation?

Explain data-binding in angular?
1. interpolation
2. Property binding
3. Attribute binding
4. Class & style binding
5. Host binding

Explain the following terms when put inside the component?
1. Selectors
2. Hostdirectives
3. @optional()

4. @self()
5. @skipself()
6. @host()

How to create stand-alone components and modules ?

How would you insert an embedded view from the prepared TemplateRef?

What is the difference between @ViewChild() and @ContentChild()?

Angular forms?

Reactive forms?

Template driven forms?

Difference between form group vs form control?

Explain different form states?form controls?

1. Pristine
2. Touched
3. Dirty
4. Untouched
5. Reset
6. Valid
7. invalid

Form validations in angular?

What are services?

What code should be put inside services?

What is the difference between @injectable vs @inject?

Explain the different abstraction layers of injection of services?

1. Module level

2. Component level

3. Root level

What is the difference between module injectors and element injectors?

What is the difference between observables and promises?

What is the difference between subscribe() and pipe() ?

What are interceptors?

How can you avoid race conditions in your application using interceptors?

How can you synchronize multiple UI updates happening in DOM at same time and modifying the same data-object?

Why is it necessary to subscribe to the API http call ?

Routing

Why use routing?
Can we have two routes with the same name inside a module?
Can we have two routes with the same name inside the project ?
What is the use of the app.routing.ts file?
What is the difference between forRoot() vs forChild()?
What is difference between ActivatedRoutes & router states?

What are routerLinks ?What is the use of routerlinkActive while framing a route for a page?

Explain wildcard routes?

Explain child routes?

How can you lazy load a module?

Have you used matchers? Why are they used?

What should you change in your application to reduce its complexity and make it more memory efficient ?

Explain the two techniques of compilation:
1. AOT
2. JIT

<u>Conceptual Topics</u>?

What is ngrx/store? Why is it used?

What are sanitizer concepts ? How to use it in your application?

How does this improve performance & risk management in application?

What is the difference between a smart/container component & dumb/presentational components?

What are lean components ?

How to handle errors in angular?

What is the difference between scan() vs reduce()?

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