

100 Angular Interview Questions



Introduction to Angular

1. What is the main purpose of Angular?
2. What's the difference between AngularJS and Angular?
3. What is Angular Ivy, and how does it improve performance?
4. What is differential loading in Angular?
5. What is the purpose of Zone.js in Angular?
6. What is AOT (Ahead-of-Time) compilation in Angular?
7. What is JIT (Just-in-Time) compilation in Angular?
8. What are the advantages of AOT over JIT compilation?
9. How do you enable AOT compilation in Angular?

Angular Components & Modules

1. What are components and modules in Angular?
2. What are decorators in Angular?
3. What is metadata or annotations in Angular?
4. What is the importance of Angular component hooks/life cycles?
5. Explain Angular life cycle hooks in detail.
6. Differentiate between constructor and `ngOnInit()`.
7. What is change detection in Angular?
8. How does Angular handle change detection?
9. What is OnPush change detection strategy?

Templates, Directives & Data Binding

1. What are templates in Angular?
2. What are directives in Angular and how many types of directives exist?
3. Explain data bindings and the different types.
4. What is a template reference variable?
5. What are entry components in Angular?
6. What is a Pure Pipe vs. an Impure Pipe?
7. What are pipes in Angular?
8. Can you give examples of inbuilt Angular pipes?
9. How do you write a custom pipe?

Dependency Injection & Services

1. How does dependency injection work in Angular?
2. What are services in Angular?
3. What is a singleton service in Angular?

Forms & Validation

1. What are template-driven forms in Angular?
2. What are reactive forms in Angular?
3. What are the key differences between template-driven and reactive forms?
4. How do you handle form validation in Angular?
5. What is FormBuilder in Angular?
6. How do you handle form submission in Angular?
7. How do you reset a form in Angular?
8. How do you handle conditional validation in Angular forms?
9. What are async validators in Angular forms?
10. How do you dynamically add form fields in Angular?

Routing & Navigation

1. Explain the importance of routing in Angular & how to implement it.
2. What is SPA and how do you implement it in Angular?
3. What is a router outlet in Angular?
4. What is routerLink and how is it used?
5. What is route guarding in Angular?
6. What are different types of route guards in Angular?
7. How do you implement route guards in Angular?
8. How do you pass data in Angular routes?
9. What is a wildcard route in Angular?
10. How do you handle route parameters in Angular?
11. What is canActivate and canDeactivate in Angular?
12. What is a resolver in Angular routing?

Lazy Loading & Optimization

1. What is lazy loading in Angular?
2. How do you implement lazy loading in Angular?
3. What is tree shaking in Angular?
4. How do you implement server-side rendering (SSR) in Angular?
5. What is Angular Universal?
6. What is Webpack and how does Angular use it?
7. What is Service Worker in Angular and how is it used?

HTTP & API Handling

1. What is HttpClient in Angular?
2. How do you make an HTTP GET request in Angular?
3. How do you make an HTTP POST request in Angular?
4. How do you handle HTTP errors in Angular?
5. How do you use interceptors for HTTP requests?
6. How do you use async/await with HttpClient in Angular?
7. What is the difference between HttpClient and Fetch API?
8. What are interceptors in Angular?
9. How do you implement interceptors?
10. What are some uses of interceptors, and can we provide multiple interceptors?

State Management & RxJS

1. What is RxJs and why is it needed?
2. What are observables and observers?
3. What is a stream in RxJs?
4. What is the use of subscribe in RxJs?
5. How do you unsubscribe from a stream?
6. What are operators in RxJs?
7. Where have you used RxJs in Angular?
8. Differentiate between RxJs and Promises.
9. How do you install RxJs?
10. Why is RxJs called push/reactive and not pull/imperative?
11. Name some RxJs operators.
12. What is the difference between BehaviorSubject and Subject in RxJS?

Performance Optimization & Miscellaneous

1. How can you optimize an Angular application's performance?
2. What is the need for Angular CLI?
3. Why do we need ViewChild and ViewChildren in Angular?
4. Explain ContentChild and ContentChildren
5. Differentiate between ViewChild, ViewChildren, ContentChild, and ContentChildren.
6. What is { static: true } in ViewChild?
7. How do you pass data between components?
8. How do you implement HTTP in Angular?
9. What is a wildcard route in Angular?
10. What is a resolver in Angular routing?

Performance Optimization & Miscellaneous

1. Why is the node_modules folder important?
2. What is package.json?
3. What is TypeScript?
4. What is Node.js?
5. What is NPM?
6. What is a singleton service in Angular?
7. What is content projection in Angular?
8. When would you use content projection?
9. Explain content projection slots in Angular.