

Angular Mock Interview Q&A; Bank (Beginner → Advanced)

Stage 1 – Beginner (Core Angular & TypeScript)

- Q1: What is a component in Angular?
- Q2: How does data binding work in Angular?
- Q3: Difference between constructor and ngOnInit?
- Q4: What is a service in Angular?
- Q5: Difference between interface and type alias in TypeScript?

Stage 2 – Intermediate (Forms, Routing, RxJS)

- Q6: Difference between template-driven and reactive forms?
- Q7: How do you implement lazy loading in Angular?
- Q8: Difference between Subject, BehaviorSubject, ReplaySubject?
- Q9: What is an HTTP interceptor and when would you use it?
- Q10: How do you secure routes with AuthGuard in Angular?

Stage 3 – Advanced (Change Detection, State, Testing)

- Q11: How does Angular change detection work internally?
- Q12: Difference between Default and OnPush change detection strategies?
- Q13: Why use NgRx instead of services?
- Q14: How do you mock HttpClient in Angular unit tests?
- Q15: What's the difference between fakeAsync and async in Angular tests?

Stage 4 – Expert (Performance, Signals, Architecture)

- Q16: How do you reduce initial bundle size in Angular apps?
- Q17: Real-world example: how did you solve a performance issue in Angular?
- Q18: What are Angular Signals and how do they differ from Observables?
- Q19: How do you structure a large Angular project (core/shared modules)?
- Q20: How do you manage environment variables and builds in Angular CI/CD?