

Q: What is Angular?

A: A TypeScript-based framework for building SPAs.

Q: What is a component?

A: A UI building block with HTML, TS, CSS.

Q: What is a module?

A: A container that groups components and services.

Q: What is data binding?

A: Binding data between TS and template.

Q: Types of data binding?

A: Interpolation, Property, Event, Two-way.

Q: What is interpolation?

A: {{ }} used to display data.

Q: What is a directive?

A: A class that modifies DOM behavior.

Q: Types of directives?

A: Component, Structural, Attribute.

Q: What is *ngIf?

A: Structural directive to show/hide elements.

Q: What is *ngFor?

A: Repeats an element for each item.

Q: What is a service?

A: Reusable logic shared across components.

Q: What is dependency injection?

A: Injecting services into components.

Q: What is a pipe?

A: Transforms data in templates.

Q: What is routing?

A: Navigation between views.

Q: What is router-outlet?

A: Placeholder for routed components.

Q: What is HttpClient?

A: Service for API calls.

Q: What is lifecycle hook?

A: Methods called during component life.

Q: ngOnInit purpose?

A: Runs after component initialization.

Q: What is Angular CLI?

A: Tool to generate and manage Angular apps.

Q: What is package.json?

A: Lists project dependencies.

Q: What is TypeScript?

A: JS superset adding strong typing.

Q: What is SPA?

A: Single Page Application.

Q: What is Lazy Loading?

A: Loading modules only when needed.

Q: What is Guards?

A: Controls route access.

Q: Types of guards?

A: CanActivate, CanDeactivate, Resolve.

Q: What is RxJS?

A: Library for reactive programming.

Q: What is Observable?

A: Stream of async data.

Q: Subject vs BehaviorSubject?

A: BehaviorSubject stores latest value.

Q: What is async pipe?

A: Auto-subscribes to observables.

Q: What is template-driven form?

A: Simple form using ngModel.

Q: What is reactive form?

A: Form built using FormGroup.

Q: Validators in Angular?

A: Required, minLength, maxLength.

Q: What is change detection?

A: Updates UI when data changes.

Q: What is zone.js?

A: Handles async operations for Angular.

Q: What is AOT?

A: Ahead of Time compilation.

Q: What is JIT?

A: Just In Time compilation.

Q: What is ViewChild?

A: Access child component/template.

Q: What is ng-content?

A: Used for content projection.

Q: What is module federation?

A: Sharing modules across apps.

Q: What is standalone component?

A: Component without NgModule.

Q: What is signal?

A: Reactive primitive in Angular.

Q: What is server-side rendering?

A: Rendering Angular on server.

Q: What is hydration?

A: Reusing server-rendered HTML.

Q: What is build optimizer?

A: Optimizes production build.

Q: What is ivy?

A: Angular's rendering engine.

Q: What is event binding?

A: Listening to user actions.

Q: What is property binding?

A: Binding TS values to HTML.

Q: What is trackBy?

A: Optimizes ngFor performance.

Q: What is environment.ts?

A: Stores app environment settings.

Q: What is polyfill?

A: Backwards compatibility code.