

Angular & Web Development Interview Experience

During my recent Angular interview preparation, I explored a mix of JavaScript fundamentals, Angular architecture, state management, and PWA optimization. Here's a quick summary:

◆ JavaScript & Core Concepts

Hoisting, shallow vs deep copy, and lexical scope — clarified how nested objects behave in shallow copies.

Array methods (slice, splice, flatMap) and type handling (typeof, any, unknown, never).

◆ Angular Architecture

NgModule, RouterState, ActivatedRoute, ActivatedRouteSnapshot.

Dependency Injection at root, module, and component levels.

Services: not just for API calls — used for state sharing, business logic, auth, and logging.

AOT Compilation for faster production builds.

◆ State Management

NgRx: Actions → Reducers → Effects → Store → Selectors.

BehaviorSubject and Observables to manage reactive shared state.

◆ API & Caching

Alternatives to HttpClient: fetch(), XMLHttpRequest, Axios.

Caching strategies: in-memory, LocalStorage, interceptor-based, and Service Worker (PWA) for offline support.

◆ PWA & Service Worker

Cached app shell and API responses in Cache Storage.

Works offline, auto-updates on new deployments.

Best practice: cache only public/non-sensitive data.

◆ Key Takeaways

Angular is more than components — DI, services, RxJS, and NgRx are crucial for scalable apps.

Understanding JS fundamentals is key for debugging and building robust apps.

Performance optimizations like AOT and caching can greatly improve UX