

Angular

1. Introduction to Angular

- What is Angular, and how does it differ from other frontend frameworks?

Angular is a TypeScript-based frontend framework developed by Google for building single-page applications (SPAs). Unlike React (a library), Angular is a full-fledged framework with built-in tools for dependency injection, routing, and form handling.

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- What are the key features of Angular that make it a popular frontend framework?

Key features include two-way data binding, dependency injection, modular architecture, directives, RxJS for reactive programming, and an integrated CLI for project management.

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- Explain the concept of two-way data binding in Angular.

Two-way data binding ensures synchronization between the model and the view. When the user updates the UI, the model updates automatically and vice versa using

`[(ngModel)]`

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- What is the role of TypeScript in Angular development?

TypeScript enhances Angular by providing static typing, better code organization, advanced object-oriented programming features, and improved tooling support.

2. React vs Angular

- What are the main differences between Angular and React in terms of architecture and performance?

Angular follows a component-based MVC architecture, while React uses a virtual DOM and a component-based approach without a strict structure. React is faster due to its virtual DOM, whereas Angular has a longer learning curve but is more structured.

- How does Angular handle state management compared to React?

Angular primarily uses services and RxJS for state management, whereas React relies on built-in state (useState, useReducer) or external libraries like Redux and Context API.

- Which framework - React or Angular - is better suited for large-scale enterprise applications & why?

Angular is better for large-scale enterprise applications due to its built-in features, strong TypeScript support, and opinionated structure, which ensure maintainability & scalability.

3. Introduction to Angular Toasts

- What is Angular Toasts, and why is it used in Angular applications?

Angular Toasts is a third-party library used to display non-blocking, user-friendly notifications in Angular applications. It improves user experience by providing customizable alerts.

- How does Angular Toasts differ from traditional alert boxes in web applications?

Unlike traditional alert() boxes, Angular Toasts provide non-intrusive customizable & asynchronous notification that do not interrupt user interaction.

4. Steps to Create an Angular Toast popup.

What are the steps required to integrate and display a Toast popup in an Angular application?

1. Install Toast: `npm install ngx-toastr --save`
2. Install Bootstrap: `npm install bootstrap`.
3. Import ToastrModule and BrowserAnimationModule in app-module.ts.
4. Inject ToastrService in the component and use `this.toastr.success('Message', 'Title')` to display a notification.