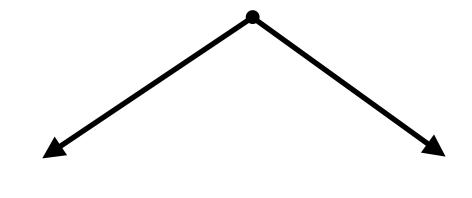
Angular 15.3

Intro course

Web Applications Types



SPA

MPA

SPA VS MPA Single Page Application

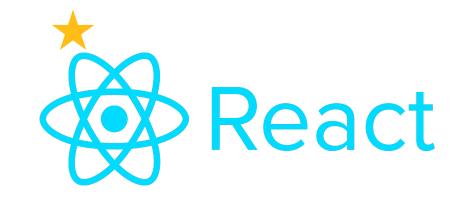
- Initial loading
- User experience smoother
- Development && Maintenance
- SEO (Search Engine Optimisation)
- SSR (Server Side Rendering)
- Hydration (Advanced Topic)
- Resource Consumption
- PWA (Progressive web application)

SPA (Single page application)

Single page application libs







	Vue	Angular	React
Difficulty	Easy	Hard	Easy
Market	Not Bad	Good	Good
Integration	No	Yes	No
Performance		All of them almost the same	

Pre-Requirements

Requirements and skills for Angular

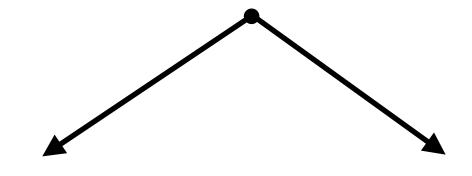
- HTML / HTML 5
- CSS/CSS3/SASS/SCSS
- JS/DOM
- Typescript
- OOP (Basic knowledge)
- GIT
- Restful API
- Package managers (NPM, Yarn, PNPM)

Angular.js VS Angular

2010 - Till now

- Angular.js: 2010 2021
- Angular: 2016 till now
- Difference: Angular started to rewrite Angular.js Framework from the beginning
- To makes it :
- More scalable
- Better performance
- Statically typed (TS)
- Better Architecture
- Mobile and Desktop support

Angular Compilation



AOT

AOT: Ahead **Of** Time Compilation happens During the building process

JIT

JIT: Just In Time Compilation happens in the browser run time

Angular 15.3

Official webSite: https://angular.io/

Content

- Hello Angular App
- Component Architecture + Standalone components
- File structure
- Angular CLI
- App module + Bootstrapping
- Routing
- Data Binding (Data)
- Directives (Built-in, "Structural + attribute")
- Component Relations
- Content projection
- Lifecycle hooks
- @HostBinding, @HostListner, @ViewChild
- Observables and reactive programming
- Services
- Dependancy Injection

- Modularity + lazy loading
- Guards
- Forms (Template ,Reactive)
- Dynamic forms
- Pipes
- RXJS (Basics)
- Change detection Strategy (Advanced)
- NGRX (Advanced)
- Smart & Dump Architecture (Advanced+)
- Onion Architecture (Advanced+)
- SSR (Server Side Rendering) (Advanced++)
- Hydration in Angular (Advanced++)
- Ng templates
- Standalone Application (Module Free)
- HTTP clients
- Interceptors
- Latest Updates and Changes from 15.3 to 17.0 (next)