# 📙 Front End.1

▼ A front end developer know how but a front end engineer knows...

why

▼ What is a single-page application (SPA)?

a web application or website that interacts with the user by dynamically rewriting the current web page with new data from the web server, instead of the default method of a web browser loading entire new pages

▼ What is the goal of SPA?

faster transitions that make the website feel more like a native app

▼ Front End Engineer vs Front End Developer

a Front End Engineer probably performs the added task of setting up the project with all the frameworks and tools in place, so that the developers can dive in and simply write code

▼ In a SPA, a page refresh never

occurs

▼ How are all necessary HTML, JavaScript, and CSS code retrieved in SPA app?

retrieved by the browser with a single page load

or the appropriate resources are dynamically loaded and added to the page as necessary

▼ What does the location hash or the HTML5 History API provide in a SPA?

the perception and navigability of separate logical pages in the application

▼ What is an API?

a set of functions and procedures allowing the creation of applications that access the features or data of an operating system, application, or other service

▼ What is a service worker?

a script that allows intercepting and control of how a web browser handles its network requests and asset caching.

With service workers, web developers can create reliably fast web pages and offline experiences.

▼ What is a manifest file?

A JSON file that controls how your app appears to the user and ensures that progressive web apps are discoverable.

It describes the name of the app, the start URL, icons, and all of the other details necessary to transform the website into an app-like format.

▼ What are progressive web apps (PWAs)?

web apps that use emerging web browser APIs and features along with traditional progressive enhancement strategy to bring a native app-like user experience to cross-platform web applications

▼ What is progressive enhancement?

Progressive enhancement is a strategy for web design that emphasizes core web page content first.

This strategy then progressively adds more nuanced and technically rigorous layers of presentation and features on top of the content.

It makes sure your user is able to experience at least basic functionality in the worst case.

▼ What is graceful degradation?

a design philosophy that centers around trying to build a modern web site/application that will work in the newest browsers, but falls back to an experience that while not as good still delivers essential content and functionality in older browsers

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