SPA(Single Page Application):-

A single page application is a type of web application that loads a single HTML page and dynamically update the content as the user interacts with the application.

This architecture allows for faster navigation, reduced bandwidth usages and a more desktop like feel for web application.

Examples of SPAs include Gmail, Google Maps, and twitter.

* **Team collaboration:** Single-page applications are excellent when more than one developer is working on the same project. It allows backend developers to focus on the API, while frontend developers can focus on creating the user interface based on the backend API.
* **Caching:** The application sends a single request to the server and stores all the received information in the cache. This proves beneficial when the client has poor network connectivity.
* **Fast and responsive:** As only parts of the pages are loaded dynamically, it improves the website’s speed.
* **Debugging is easier:** Debugging single-page applications with chrome is easier since such applications are developed using AngularJS Batarang and React developer tools.
* **Linear user experience:** Browsing or navigating through the website is easy.

We can do this work with java also, but the answer is that the less library is available as compared to reactJs.

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The architecture of Single page applications is simple. It involves client-side and server-side rendering technologies.

Suppose you want to visit a specific web page. When you enter its address to request access from your browser, the browser sends this request to a server and comes with an HTML document in return.

Using a SPA, the server sends the HTML document only for the first request, and for subsequent requests, it sends JSON data. This means a SPA will rewrite the current page’s content and not reload the whole web page. Hence, no need to wait extra for reloading and faster performance. This capability makes a SPA behave like a native application.