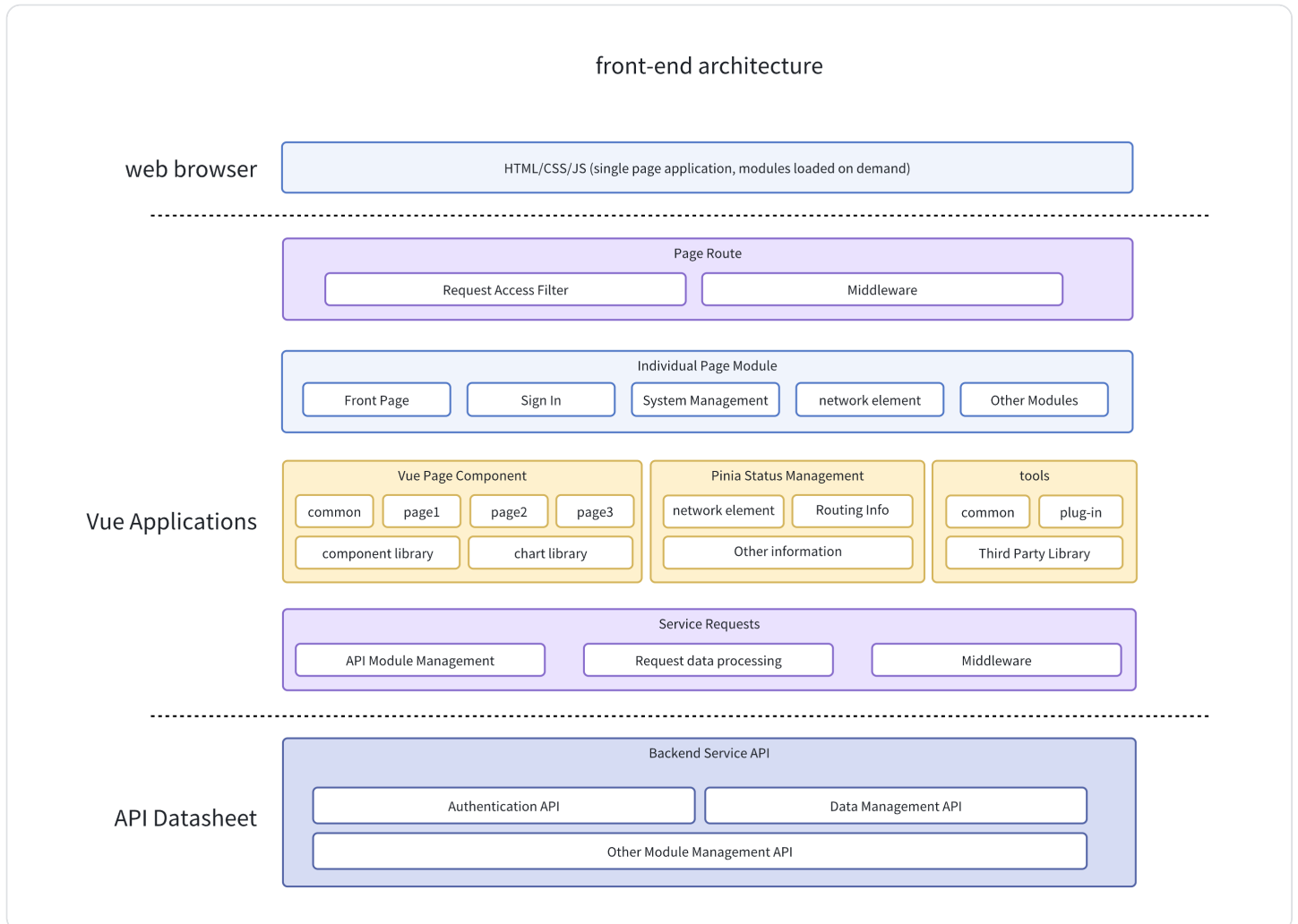


Brief Introduction to Front-end Architecture



Front-end technology selection

[Vue3](#) and [React](#) have many similarities in terms of functional features, such as virtual DOM and component-based features. However, Vue3 has some advantages over React in terms of performance, such as faster rendering speed, smaller code size, better typescript support, etc. In terms of benchmark scores, Vue performs much better in [js-framework-benchmark](#) than React and Angular. In this benchmark test, it is also on par with some of the fastest non-virtual DOM frameworks in production environments.

Compared to the familiarity within the development team, lower entry barriers, and excellent documentation, it can significantly reduce the onboarding and training costs for novice developers. The trend of the surrounding community ecology continues to grow, so choosing

Vue3 is more advantageous. Finally, the overall architecture is determined using the technology stack.

1. [Vue](#) The progressive JavaScript framework for building modern web UI.
2. [Vite](#) Native-ESM powered web dev build tool
3. [Pinia](#) Intuitive, type safe and flexible Store for Vue
4. [Vue-router](#) page routing management
5. [Vue-i18n](#) Page Internationalization
6. [TypeScript](#) is a language for application scale JavaScript development
7. [Xlsx](#) SheetJS Spreadsheet data parser and writer
8. [Dayjs](#) date time library alternative to Moment.js with the same modern API
9. Fetch's promise-based HTTP library is natively supported in the browser
10. [Ant Design of Vue](#) An enterprise-class UI design language and Vue-based implementation
11. [Echarts](#) Apache ECharts is a powerful, interactive charting and data visualization library for browser
12. [Antv G6](#) A Graph Visualization Framework in JavaScript

Browser support: Supports common browsers on the market, does not support IE, and does not support versions below Chrome 97.