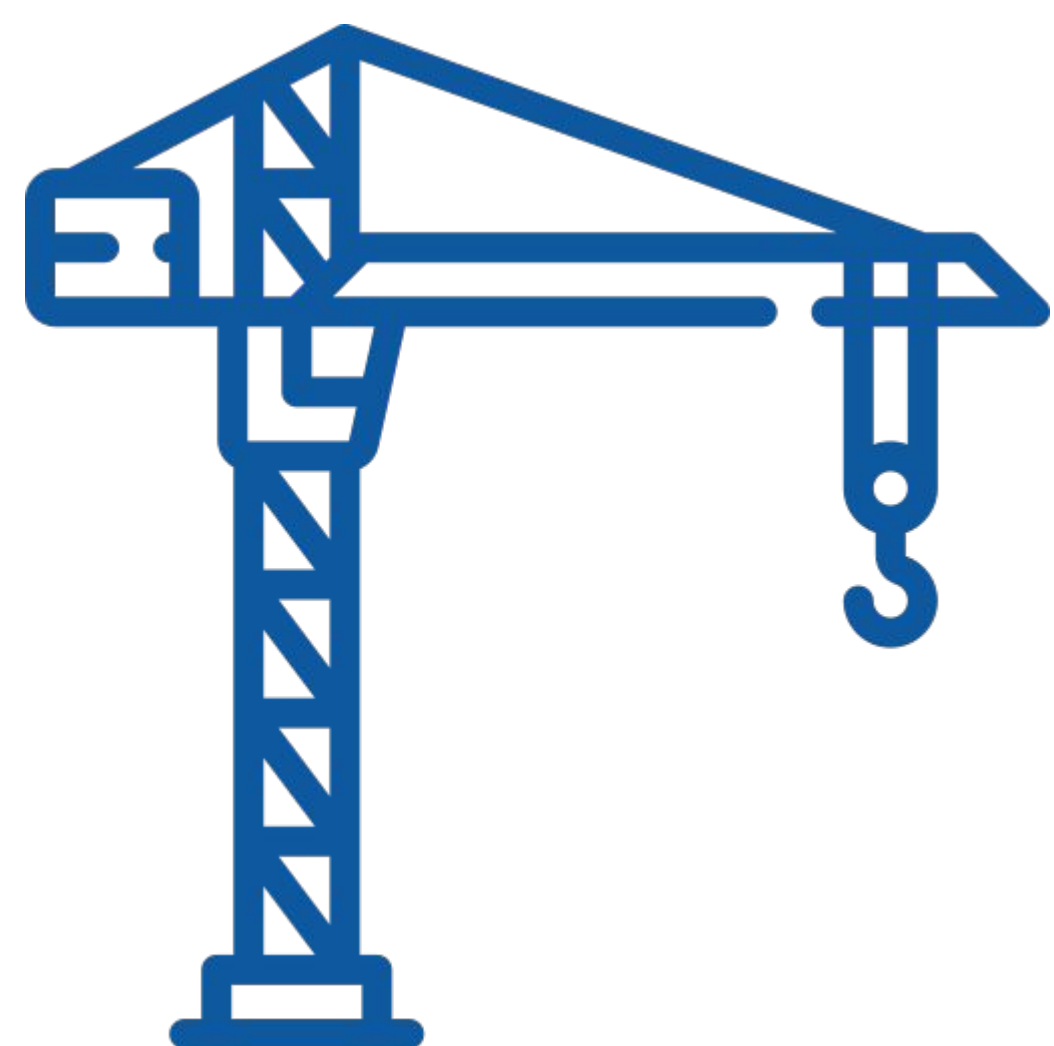# Next-Gen OpenEBench: A Technical Overhaul for the ELIXIR Benchmarking Platform.
The Power of Modularity, TypeScript and Enhanced UI

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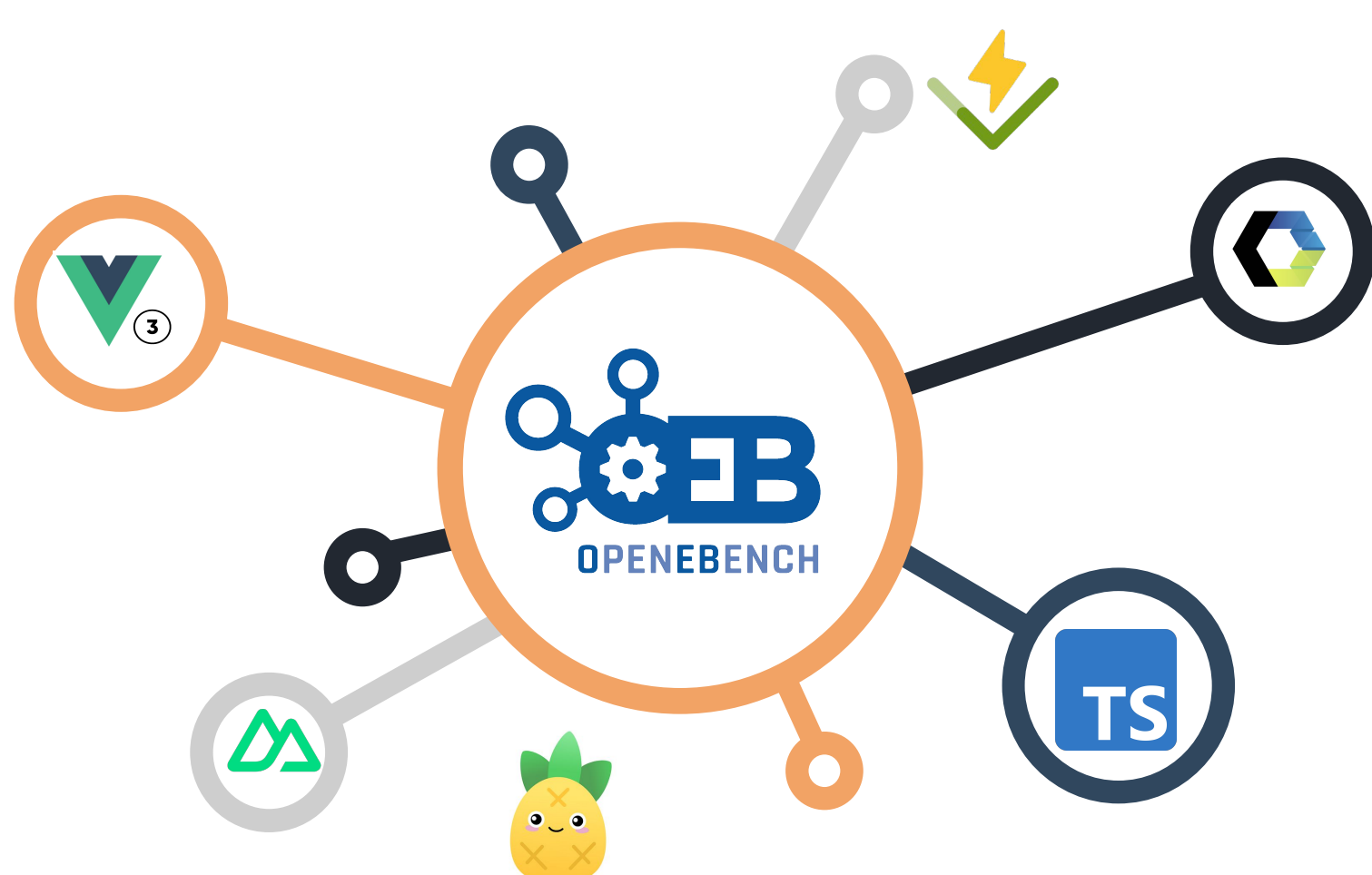
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Technology is evolving faster than ever. Keeping systems up to date is key to staying relevant and making sure they are sustainable. OpenEBench, ELIXIR's gateway to community-driven benchmarking efforts, research, and software monitoring for Life Science tools, workflows and other complex systems, is also part of this ongoing transformation.

Refactoring for a solid foundation

OpenEBench is built for long-term sustainability thanks to the careful selection of libraries and thoughtful development practices. By using well-supported tools and a clean **Git workflow**, the platform remains easy to maintain and resilient over time.

❏ Transition to **TypeScript** for better reliability and team collaboration.

❏ Adoption of **Pinia** for efficient and modern state management.

❏ Migration from Nuxt 2 + Vuetify to **Nuxt 3**, using **Tailwind, Bootstrap,** and **Nuxt UI**.

Modularity and Scalability

A modular architecture supports platform growth and smoother integration. Web Components and isolated modules enable faster development, easier testing, and flexible integration in other projects.

Maintainability

Standardized libraries, consistent tooling, and extensive testing improve platform stability and reduce regressions. Updated developer documentation makes onboarding and collaboration easier across the community.

Enhanced UI/UX

The new interface is more intuitive, accessible, and visually modern. We're also developing an internal intranet to simplify user interactions and reduce upload mismatches with fewer steps.
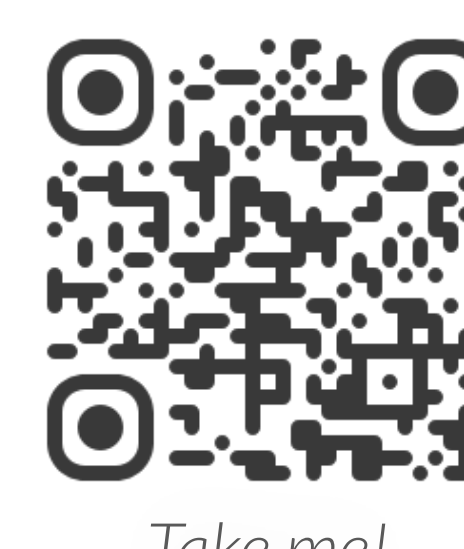
Contact