

Will Terry  
MLD Enterprises  
10/26/2025  
App Design Choices & Assumptions

In regards to the design choices made for the demonstrative application, there was much thought put into which tech stack could prove most efficient for the task at hand. In the end, MERN (MongoDB, ExpressJS, React, and NodeJS) stack seemed to be the clearest option. ExpressJS is helpful in the fact that its high performance, light weight framework is widely used to make working with APIs much more clean and efficient on the backend of the application. Storing the data with MongoDB is crucial, because Mongo has a document oriented structure, is highly flexible, and very fast for most use cases. This means MongoDB is great for dynamically changing projects that need large amounts of scalability and will therefore help as the application develops over time. React is one of the most essential tools because of the existence of React Native, which will make porting the website to mobile development much more seamless.

Assuming the user base grows as projected, an integrated user login system will be adapted through the use of Google account authorization, and traditional email/password sign in with a selected username. Possible further integrations through systems such as iCloud login are also in the projected features.

In terms of design, the website should be easy enough for users of all ages to navigate. Good UI/UX has to be ada compliant, which entails it is easily legible with rules regarding contrasting colors and text. The website for the demonstration is a simple, mostly 2 colored palette, with hints of color to emphasize and highlight important controls. As things develop more, more aesthetic and intricate design can be applied within the aforementioned ada guidelines in order to make something both captivating and compliant.

The majority of code will be written with the intention of scalability and readability. This includes heavy use of comments in code, a github organization with project branches, and descriptive reports on the use cases of sections of code.

With a culmination of the demonstrative website, and the plans for a project at scale, the oversight of creating a flushed out fully user friendly experience materializes into an achievable task. After reviewing design plans, and great amounts of communication and input, the end goal will be accomplished.