

CALCULATOR APP

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Introduction

Magic Calculator is a web app that was done as part of a job application process. The requirements were to create a login page and develop a UI for a calculator that will only be visible once the user is logged in.

After some research and studies, I ended it up using the following technologies:

- Front end (Next.js and TailwindCSS)
- Authentication SDK (Magic Link)
- Hosting (Vercel)

Next JS

Next.js is a Javascript framework that builds web applications using React. I have been using Next.js for almost two years now, which is one of the many reasons why it was my go to.

The Automatic Static Optimization feature allows Next.js to build hybrid applications that contains both server-rendered and statically rendered pages. This provides us with many advantages like:

- Rich User Experience
- Great performance
- Rapid feature development

Next.js is widely used by the biggest and most popular companies all over the world like Netflix, Uber, Starbucks and Twitch. It's also considered one of the fastest growing React frameworks, perfect to work with static sites - which was the hottest topic in the web development world lately.

TailwindCSS

Tailwind is my CSS framework of choice and will probably be for the next few years. Tailwind is very useful and makes it very easy to build design systems. It saves a lot of design and development process in many areas, and responsiveness is one of them.

Magic.link

Magic is a developer SDK that can be integrated into an application to enable passwordless authentication using magic links - similar to Slack and Medium.

Magic is built using principles of distributed security. They run a secure in-house operation that delegates most of the security storage to Amazon's Hardware Security Module or HSM (you can learn more about HSMs and how Magic uses them in their [security documentation](#)). Not even Magic employees have access to the HSM. They've locked everyone out of ever getting access to the keys stored there.

Vercel

Vercel is a cloud platform for static sites and Serverless Functions that fits perfectly with my workflow. Vercel was built by the same team who built Next.js. It enables developers to host Jamstack websites and web services that deploy instantly, scale automatically, and requires no supervision, all with no configuration.

BRAND IDENTITY



Glassmorphism

It seems to be the new craze! For the design of this app I tried to keep it simple, since it's a simple website, but I also wanted to try the new UI trend. I realized that it has accessibility issues and having the option to turn it off would be a useful feature to build.

I tried to design a logo that was as simple as the app, but also relevant!