Research Notebook

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App Setup

In this section, I will research different methods of app development with the goal of deciding how to build my app and what I will use to make it.

3 October 2023 - App Frameworks

In order to make an app, some sort of framework that provides a standard way to build and deploy applications.

What I am looking for in a framework:

- Cross platform: Can build to both iOS and Android
- Established community: Pre-existing libraries and a place to go if I run into errors

In my search for suitable framworks, I have found that the two most popular ones are probably going to give me the best success in this project. These two frameworks are called React and Flutter, and dominate most of the app building options.

	React Native	Flutter
General	Made by facebook, React uses JavaScript to make it's compo- nents. It offers a variety of UI options and more native expe- rience	Flutter was made by Google and has it's own take on the app development process. It uses Dart to render widgets (display components)
Pros	 Easy to learn and master (JavaScript) Native UI unique to iOS and Android Best for complex animations 	 Dart is similar to other languages I know Excelent documentation Standard UI across both iOS and Android Highly performant
Cons	 Poor documentation Constant updates (many things get deprecated) Overwellming number of options/solutions 	 Harder to master Limited libraries by 3rd parties Large app sizes

After conducting the research on these two popular frameworks, I have decided to go with the Flutter framework ultimately because of the development process. It has better documentation that is simple and straight to the point and can make working on apps quicker and cause less suffering.

4 October 2023 - Project Setup

For this project, I will be using Flutter to build an app.

I have setup my development environment using Neovim, a popular text editor that I have been using for a while. It is highly configurable and I plan of leveraging exactally that to hasten development.

Neovim packages installed:

- flutter-tools.nvim by akinsho
- vim-lsc and vim-lsc-dart by natebosch

(Packages can be found on GitHub)

Both of these packages allowed me to setup my project and provide helpful code completion. I also installed the Android operating system onto my laptop inorder for me to run a virtual phone on my computer to test out my app in realtime.

Currently, I have created a blank project and am fully preped for development.