Booker Study Mapper

Architecture Decision Record

# Overview

An Architecture Decision Record is a simple document to outline the decisions we make in the design phase of the project and outline a specific element to be discussed.

# Target Device & Environment

* Target devices: Android
* CSS framework: Tailwind CSS
* Development Platform:
  + - React Native
    - Expo Go
    - Emulation Software (Expo, or Android Studio)

# Development Framework

We will be utilizing React Native/Expo Go as our development framework. We are the most familiar with this, so we must play to our skillsets.  
 We will be using React/Expo Go to install our application on our own mobile devices, and testing our devices on our own equipment, or otherwise utilizing emulators to simulate the equipment.

In the future; although it is optional, we might consider installing Android Studio and running emulators on their platform, as they have access to more Android emulators, and perhaps if time is permitted expand our application to Apple devices.

* React Native
* Expo Go
* Android Studio & Emulators (Optional)
* Focus on Android.

If time is permitted, we may expand to Apple devices.

# Navigation Strategy

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# Hardware

* Focus on Android Devices.
* Focus on a small footprint as possible (we have a very simple app)

We may consider expanding to Apple devices after android, time permitting.

# Database Storage

We will focus on storing the data on the mobile device, as our application uses very simple datasets. It is also important since the user should be able to utilize our application if either cellular or Wi-Fi network is down. Our application should be able to operate in an offline state.

* Direct storage on mobile devices.
* Purely offline capability, no cloud storage at all.
  + Privacy, ease of use, no downtime.

We also made this decision since we believe setting up any server interactions is unnecessary work, and many users complain about so many applications are cloud-based and are complaining about privacy issues associated with that format.

In the future, we may consider adding server functionality and providing a cloud-based service, purely for our own personal growth of experience. We struggle to provide a practical answer for online capability, we may strive to find one.