**Know-Nothings**

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For sprint0 we accomplished a few basic tasks to make a foundation for the rest of our development. During this sprint, we gathered lots of information regarding the project and got rid of a few ideas that we’re not going to work.

**Android Studio**

Each member of the team was tasked with using android studio on their own machine to create a baseline app. This was created by following the detailed tutorial on the android studio website. In this task we all learned key features of the app such as the design layout, creating buttons and how to use the emulator built into the studio. This will make it easier for us to pick up where someone else left off in the construction of our app.

**Brainstorming**

Alongside the progression in the android studio tutorial. We would also brainstorm the app’s backend. This would happen in class after all of us would research potential ways to build the database. At first, the plan was to use Amazon’s API to use as a realtime database, always pulling updated information. Once we figured out that this API was behind a paywall, we kept looking. Another idea was to scrub the internet and build our own database, but this information would not be up to date. Thus Todd found that Barnes and Noble has something we can use for real-time data queries. Luke also found that Google Books API might be easier to query.

**Camera Scanner**

We plan to use the Barcode Scanner API to detect barcodes in real-time in any orientation. This can help us to detect barcodes to find ISBN. And the Text Recognition API recognizes text which can help us to find the

**How the app should work**

1. The app uses a camera and Barcode Scanner API to detect ISBN.

2. The app uses detected ISBN and Google Book API to look up the information of the book which includes the title, authors, and version of the book.

3. The app uses received information from Google Book API, then it uses Barnes and Noble API to recommend the new books to the user.

**Pseudocode**

Once this information was attained, we started building a flowchart that will then be morphed into our pseudocode. This was something Huy was doing on his own out of instinct. We have most of the flowchart finished and will be converting it into pseudocode soon, once we enter sprint1.