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**Report Sprint 4**

**1. Completed tasks**

- Followed instructions of Alma (the library database management system) to retrieve the whole database from the URL given by the library, parsed to a csv file

- Converted the csv file to a json file acceptable by Firebase

- Uploaded the file to Firebase and have a database that contains all current books in the library

- Started writing a class to update the database

- Fixed one of the problems that stopped the map from showing up.

**2. Outstanding tasks**

- Finish setting up the map interface.

- Test completed UIs.

**3. Challenges**

- Have trouble finding out why sometimes the map will not show up and how to handle those cases.

- The map does not show up even in the sample code, which should work well and did work well last week.

**4. Upcoming tasks**

- Study the error that causes disappearance of map

- Combine the search bar in the menu to the current map

- Connect the application to Firebase and perform search on the search bar (search for call number by name).