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Sprint 6

1. Completed tasks

- Made the input for the search bar more flexible. For now, if "abc" is entered in the search bar, the result will be a list of books whose title start with "abc".
- Created a rough UML for current design.
- Read about writing to Firebase dynamically.
- Completed the UI that shows location of one result:
    - A red dot representing the location of the book is shown on the map while the blue represents the current location of the user.
    - When the book is on a different floor from the one the user is currently on, the map will be of the floor that has the book.
    - A button appears that allows user to switch between the map of the floor the user is currently on and the map of where the book is.

2. Outstanding tasks

- Study on how to efficiently add the new attributes that define the book locations.

3. Challenges

- The search right now is case sensitive, because of Firebase methods startAt(String) and endAt(String) comparisons are case sensitive. To make this not case sensitive, I'm thinking of adding properties to a Book object on Firebase. It will be the book title all in lowercase. Then whenever I receive a query from the search bar, I can change it to lowercase and compare it with the lowercase field in the database. However, right now creating a big json file that contains all these fields usually causes crash.
- Creating a big json file is also one challenge that interferes with adding new attributes that define book locations.

4. Upcoming tasks

- Study on how to efficiently add the new attributes that define the book locations.
- Make the search more flexible, particularly case insensitive.
- Asked the librarian for access to database that contains author and publish year information.