Ngoc (Norah) Do

12-15-2017

**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.