

## Report Sprint 5

1. Completed tasks
  - Upgraded the Indoor Atlas library and fixed the incompatible issue that caused the crash last sprint: The reason is that Indoor Atlas recently upgraded their libraries, which requires fixing for some part of the code. I pulled down their most updated sample code and fixed my code according to that.
  - Improved the speed of the application for search bar by changing a few attributes in Android Manifest.
  - Connected the application to Firebase.
  - Learned about querying data on Firebase by working on a small example of Search bar using a small data set from Firebase.
  - Fixed the json file for Firebase to improve compatibility with the current application to allow for update in the case the data set changes.
2. Outstanding tasks:
  - Apply the Firebase query to the application (search for book objects by title)
  - Add attributes that represent location for each book.
3. Challenges
  - The application can be inconsistent due to dependence on the external libraries of Indoor Atlas, so I'll need to come up with a way to handle the crash caused by this inconsistency.
  - Due to the big data set of books, if the query is incorrect, Firebase can keep running and take up a lot of memory, causing crashes.
4. Upcoming tasks
  - Complete the query for Book objects by title from the search bar.
  - Add attributes that represent location for each book.