Bibliotech

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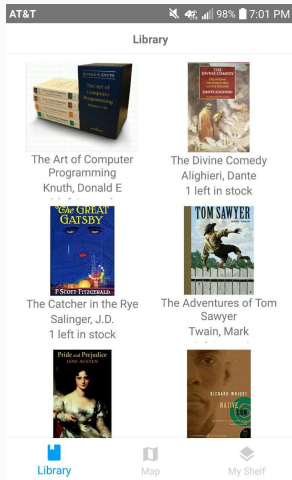North Springs High School FBLA

Getting Started

Installation & Execution

- iOS?
  - Download the XCode project to a Mac with **the latest version** XCode already installed
  - Open the project in XCode
  - Plug in an iOS device into the computer
  - Select the device from the dropdown next to the play button
  - Press the play (run) icon
  - Follow XCode's instructions on how to trust the developer
  - Open the app
- Android?
  - Download the APK to your phone
  - Open Settings
  - Go to Security>Phone Administration>Unknown Sources and turn it on
  - Click on the APK you downloaded and press "Install"
  - Press the "Open" button to execute the app
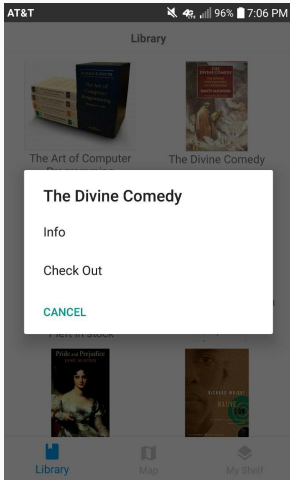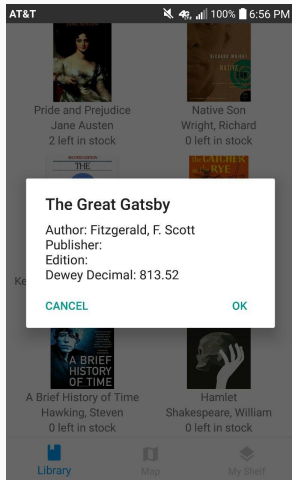
Using the Program

Upon opening the app, you will be greeted with a list of books at the Bibliotech High library. Let's start by clicking one of them…
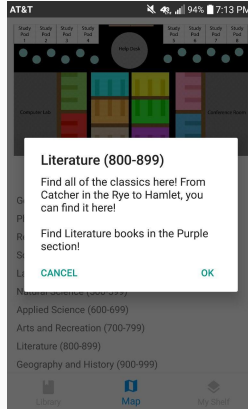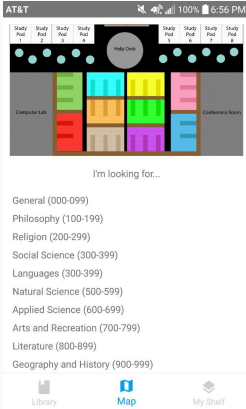
Here you will be asked whether you want to check out the book or view more info. Let's read a little more about this book by pressing "info".

Let's say you decided to read The Great Gatsby. As you can see, it's Dewey Decimal number is 813.52. To find it in the library, switch to the "Map" tab at the bottom.
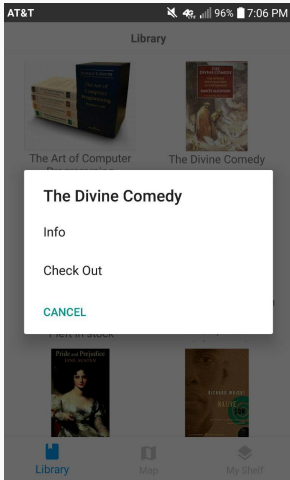
I'm looking for...

General (000-099)
Philosophy (100-199)
Religion (200-299)
Social Science (300-399)
Languages (300-399)
Natural Science (500-599)
Applied Science (600-699)
Arts and Recreation (700-799)
Literature (800-899)
Geography and History (900-999)

Library   Map   My Shelf

Literature (800-899)

Find all of the classics here! From Catcher in the Rye to Hamlet, you can find it here!

Find Literature books in the Purple section!

CANCEL   OK

Since it was in the 800-899 range, select literature to see more about the location. A pop-up will tell you where you can find these books on the map, and then you can begin on your search.
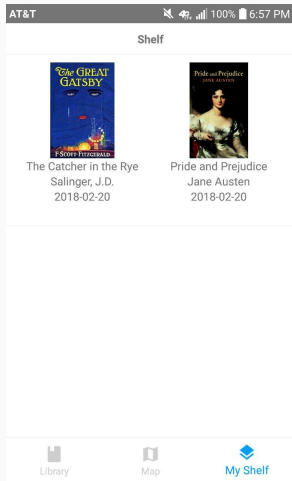
Once you find the book, select The Divine Comedy from the main view again. Press "Check Out." If it happens to be out of stock, press "Reserve" so that you'll get it as soon as it's returned.

Now switch to the "My Shelf" tab. Here, you'll see all the books you've checked out so far. Once you're ready to return one of the books, simply click on it and press "Check In" so that other people can enjoy it.

Technical Details

- iOS or Android Device
- Internet Connection (to connect to the server)

All code for this application can be found at Github. This project was written in Jasonette, a cross-platform app development framework. This framework allows for apps to run natively cross platform, due to it acting as an interpreter of JSON files with Javascript in them.

The app is built to connect to a server specifically developed for this project. The server is written in Ruby using the Sinatra web framework. The server handles all book check-outs, reserves, and check-ins from a central database, allowing for multiple users to simultaneously use the app!

- Project Home (Server)
- Project Home (App)
- Jasonette Templating Language
- Select Transform JSON Extensions
- Sinatra Web Framework
- SQLite
- ActiveRecord database mapping
- Material Design Icons
- OCLC Classify