Mybrary

Mary Hargadon
@maryhargadon on Github

Description

Mybrary is a website where users can create a lending library together. The app helps people to catalogue books and provides a space to make plans to exchange books in real life, either by mail or drop off. Each user registers for an account and creates lists of items they have to lend, like books, albums, etc. Potentially, these lists will be able to be viewed by other users, and lending terms and logistics can be discussed privately through messaging.

Features

- User registration and login.
- Personal accounts where users can display and edit lists.
- Potential feature would be for each list to be viewable and searchable by other users.
- Another potential feature is a message system between user accounts.

Planning - User Stories

Users can create a personal account.

Users can type their book or album titles in a form that displays a list.

Users can edit these lists and make new lists of items to lend.

Potentially users will be able to see other users' lists on a different page.

Potentially users will be able to send private messages to each other about borrowing specific items and lending terms.

Planning - Database

So far I have a Mongo database that contains three collections: users, books, and albums. The user collection has four values including username and password, plus a token for authorization. The book and album collections each have three values: title, author/or artist, and genre. I'm working on making an index for the user collection so that book and music data can be saved individually on user accounts. I would also like to include more params for each collection so that users can display more info about themselves and have the option to list items as "checked out", or on a waiting list, etc.
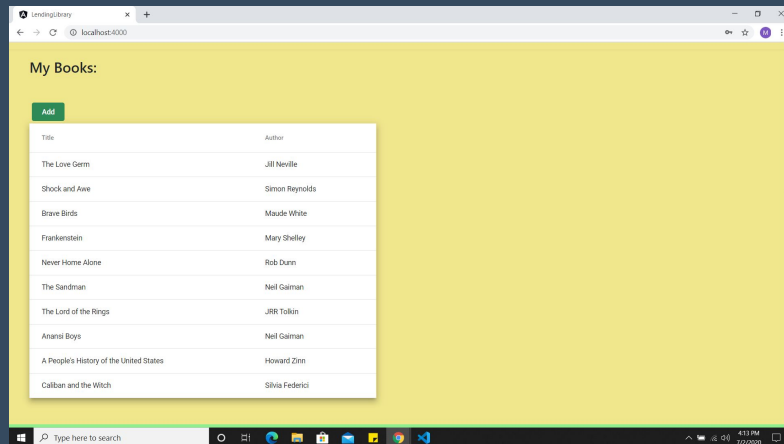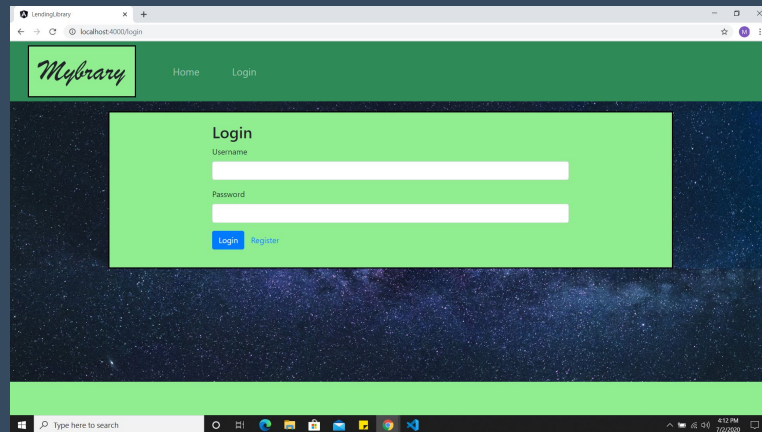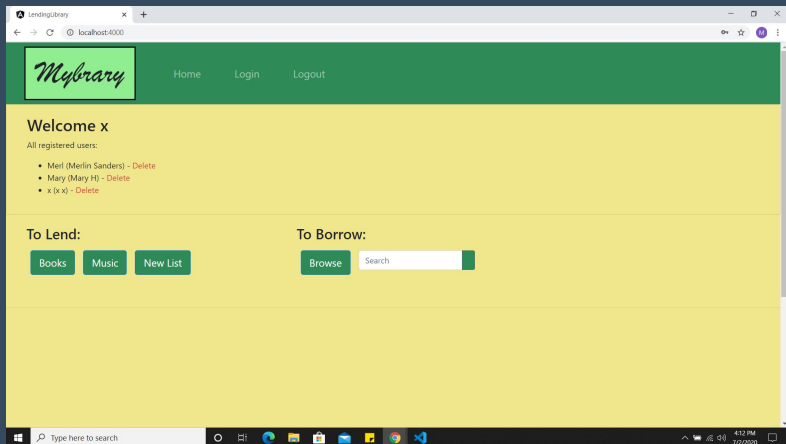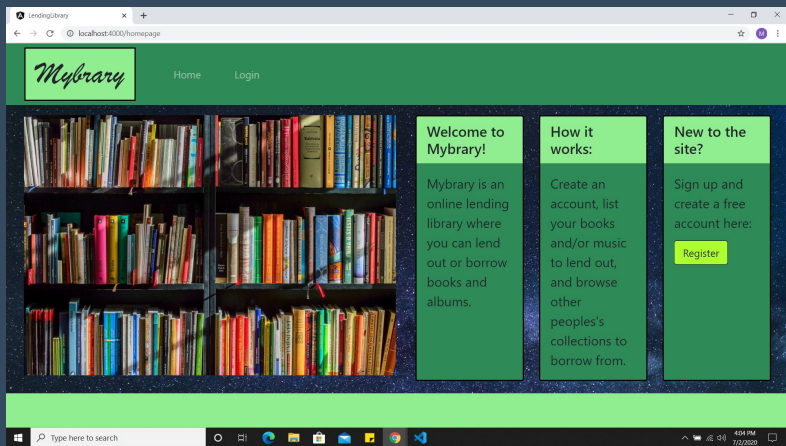
Technology Stack

- MongoDB Atlas, Express
- Angular 8 with Universal
- NodeJs, Mongoose
- JavaScript, TypeScript, HTML, CSS
- Bootstrap, Angular Material

Demo

What I Learned

- A better understanding of Git and working with separate branches on a project.
- A better understanding of NodeJS.
- How to manage a Mongo database plus more practice connecting to an API and writing the appropriate calls.
- How to create secure user accounts.

What's Next

- Connect all user data to the server and save separate data by user ID by adding an index to my database.
- Create more options for personalizing user accounts to better represent each user's lending items, terms, and preferences.
- Have a page where all lending items are listed with links to contact the user about borrowing items. As well a search engine for looking up specific items.
- A messaging system so that users can plan out how to exchange items IRL, like by mail or drop off.