The Bookshelf

Design Doc V0

Team Flying Saucers: Emory Walsh, Sophie Nichol, Lauren Pehlivanian, Kiran Vuksanaj
Softdev pd9
P05 -- Fin
2020-06-11

Roles:

- Emory Walsh → Project Manager
    - Help with front end
    - Make DD changes
- Sophie Nichol → Front end design
    - Using bootstrap to design our bookshelf social media site
- Kiran Vuksanaj → Back end
    - Designing databases
    - Google login
    - Neo4j to create 'others who liked this liked...' if time
- Lauren Pehlivanian → Back end
    - Creating accounts
    - Posting on accounts
    - Book recommendation engine

Relevant Links:

Great Kaggle dataset with thousands of books and corresponding images of their covers:
https://www.kaggle.com/search?q=books+datasetSize%3Alarge

Project Description:

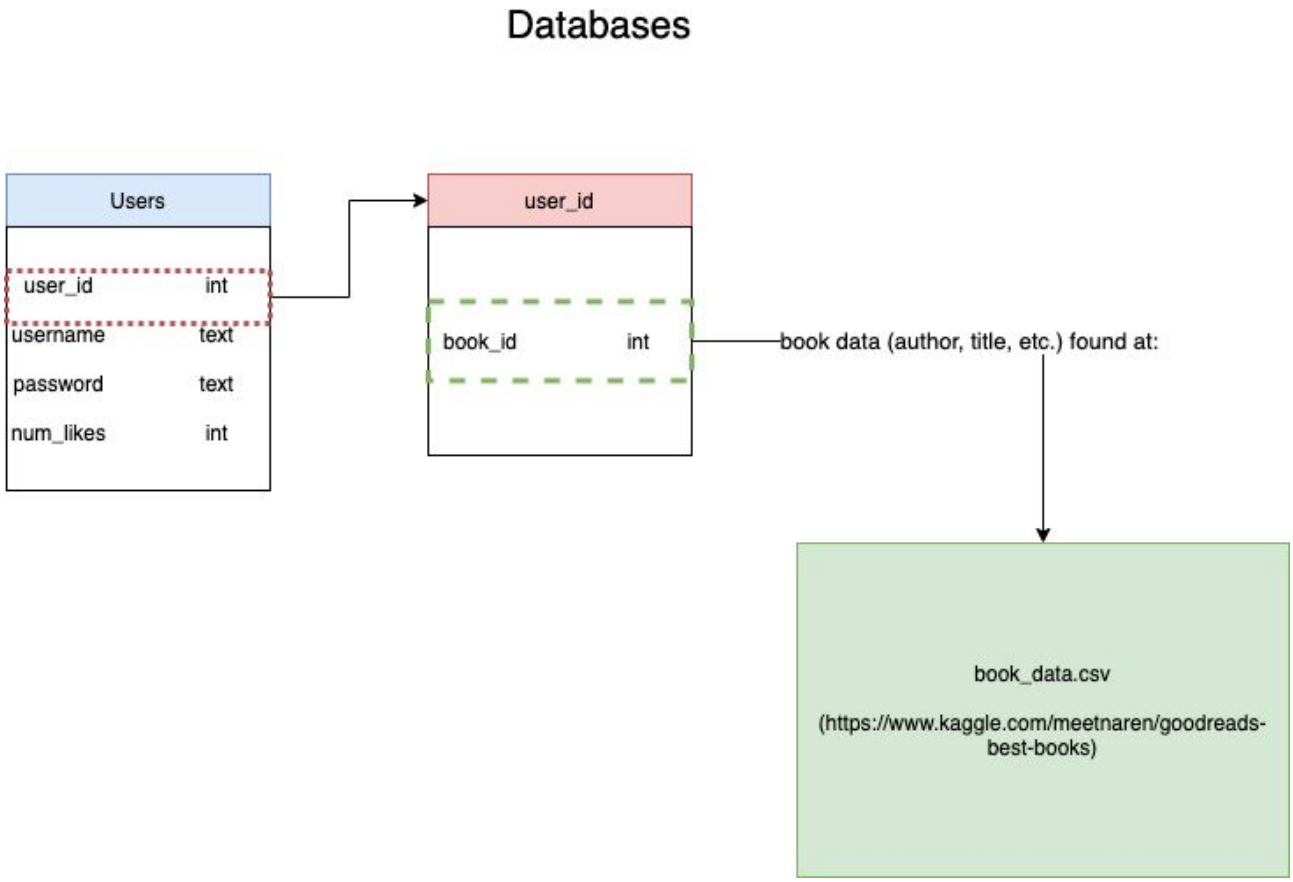
We are creating a site that will allow users to see what their friends are reading and find book recommendations. The user will be able to make "bookshelves," or collections of books that they've read or want to read that are all related to a certain topic. For instance, a user can make a bookshelf of books they've read that year or books that are based on survival stories. Other users can request to follow that person or one of their bookshelves so that they can see that bookshelf in their own library. Multiple people (like a book club) can add to one bookshelf and collaborate if they are given permission to do so by the original owner by sharing the bookshelf. Using these tools, bookworms will be able to communicate with each other and share their interests through their own social media platform.

When the user clicks on a book, they will be able to see information such as the title, author, genre, page count, and a picture of the cover. The site will also provide recommendations of books that are 'similar,' or other books of the same genre or that were often chosen by users that liked or clicked on that book. The site will provide the rating of that book as given by our database, but the user will also be able to rate books and see how their friend rated them, which will be displayed as part of the 'user rating'. All of these factors should help the user decide whether a given book might interest them.

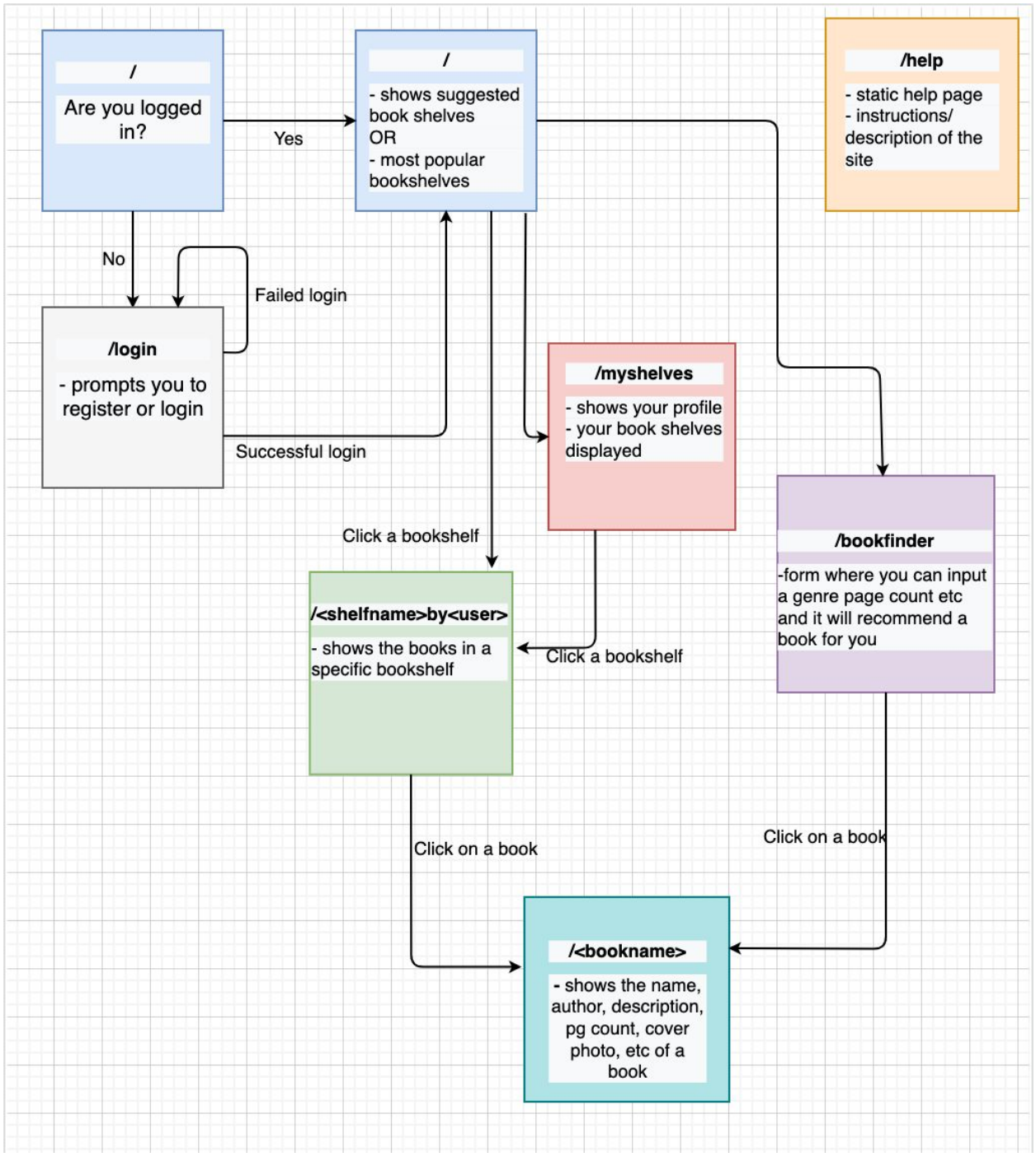
Extra Components:

- Recommendations based on what other users have clicked on after viewing a certain book
- Recommendations for books to add to the user's bookshelf based on what other users have put in similar bookshelves and the genres and authors of the books already in that bookshelf
- A chat feature so that users can talk about the books they're reading
- A comment feature so that users can comment on books and bookshelves

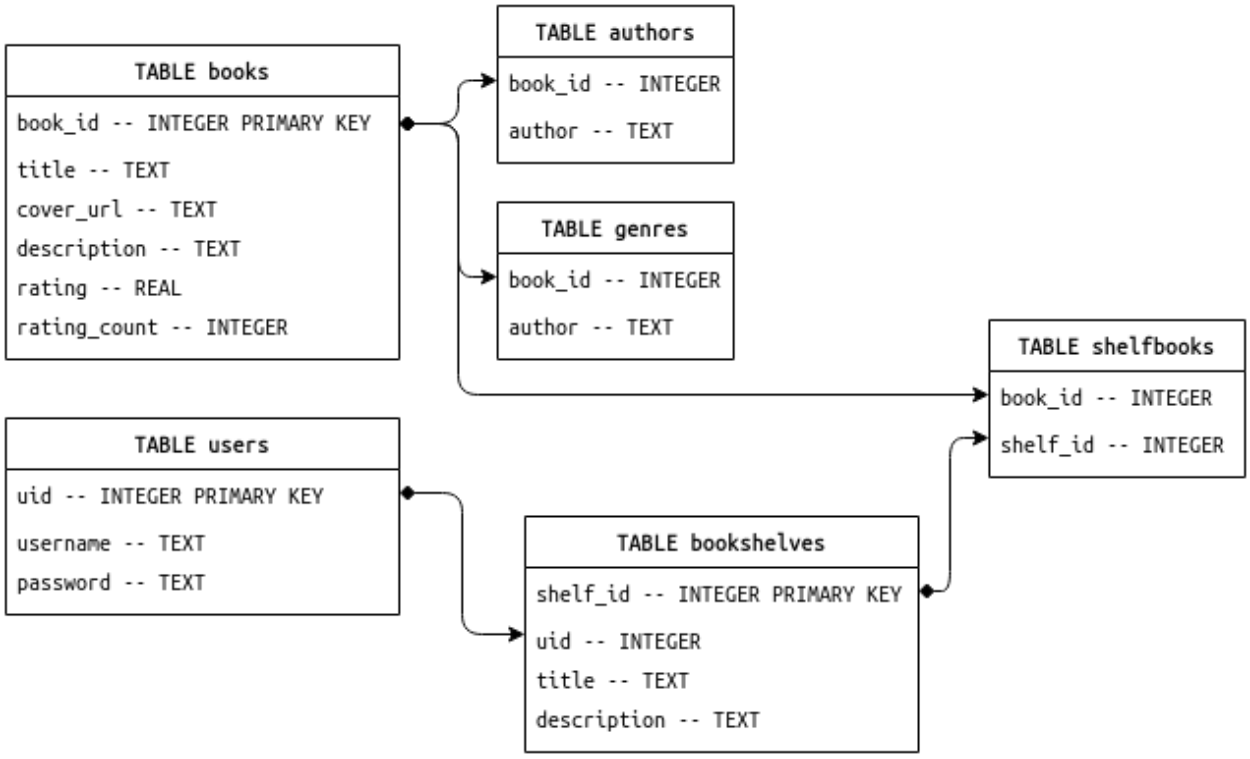
Component Map:



Site Map:


/
Are you logged in?
Yes
/
- shows suggested book shelves
OR
- most popular bookshelves
/help
- static help page
- instructions/ description of the site
No
Failed login
/login
- prompts you to register or login
Successful login
/myshelves
- shows your profile
- your book shelves displayed
/bookfinder
-form where you can input a genre page count etc and it will recommend a book for you
Click a bookshelf
/<shelfname>by<user>
- shows the books in a specific bookshelf
Click a bookshelf
Click on a book
Click on a book
/<bookname>
- shows the name, author, description, pg count, cover photo, etc of a book

Database Layout:



***note**: if a neo4j graph database is implemented, elements of “shelfbooks” will become the edges of a graph combining book nodes and shelf nodes.