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SoftDev
P01 -- ArRESTed Development
2021-12-09

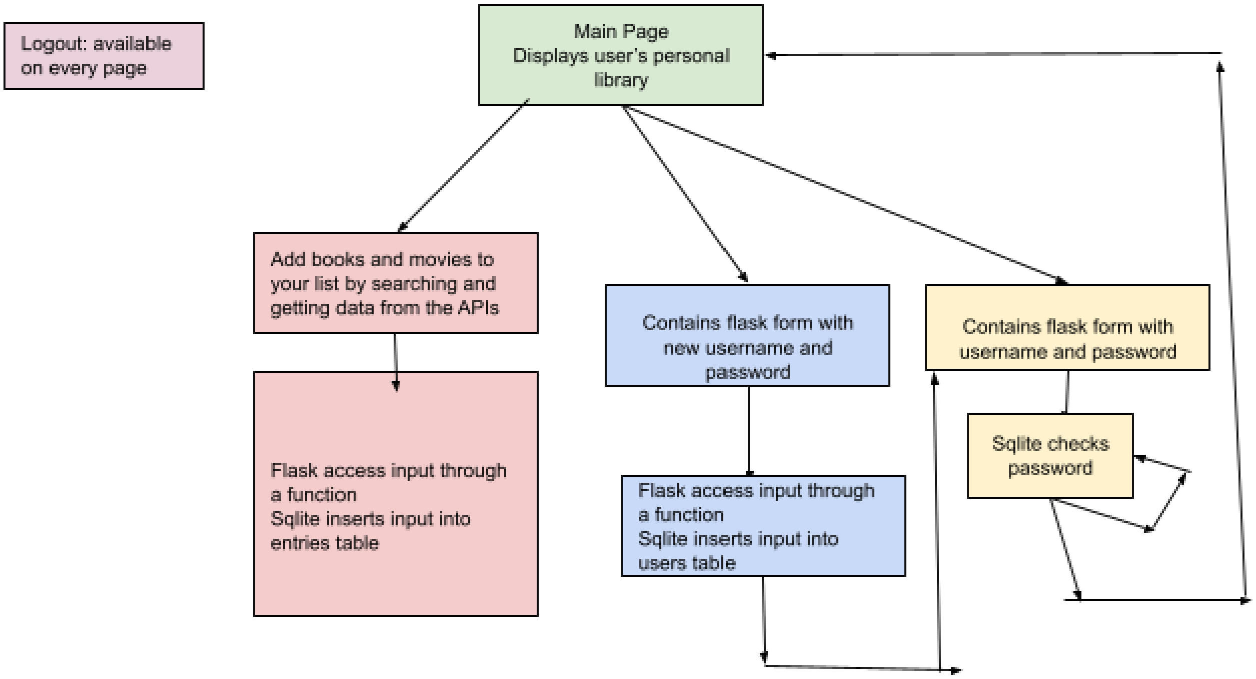
Description:

An online library containing a user selected list of books and movies. Each user has their own personal library, which has *only* the books and movies they themselves selected. The user can mark a book/movie as finished or not finished, and can choose to add more books/movies via a search.

Components and Purpose:

- SQL database:
    - Keep track of login user information
    - Stores information for the book and movie libraries
    - Stores user entries when they add a new entry to their library
    - Obtains user inputs from Flask
- Bootstrap:
    - Builds a responsive website with CSS and JS templates that makes designing the website easy
- Jinja2:
    - Create a layout for web pages the user will interact with
    - Renders templates to populate the website with some user specific information
- Flask:
    - Uses Jinja2 and HTML templates to create the web pages that the user will see and interact with
    - Data is pulled from the database in order to populate each webpage
    - Will get username and passwords from the front end when a user logs in or registers
    - Will create sessions for each user when they are logged in
    - NOTE: login/logout is subject to removal if deemed impractical
- Main Page:
    - User's personal library containing all the books/movies they have consumed
    - Contains an add book and add movie button to add to their respective database
- Add Book/Movie:
    - Search button (searching through IMDB or OpenLibrary)
    - Returns entries that have been found through the API
    - User can then choose which entry they want to add to their personal library

Component Map:


Logout: available on every page
Main Page
Displays user's personal library
Add books and movies to your list by searching and getting data from the APIs
Flask access input through a function
Sqlite inserts input into entries table
Contains flask form with new username and password
Flask access input through a function
Sqlite inserts input into users table
Contains flask form with username and password
Sqlite checks password

Database Organization:

users:

id (integer primary key)	username (text)	password (text)

movies (for caching movie information):

id (integer primary key) the same "tt" id imdb uses	title (text)	cover_url (text)	summary (text)	link (text)

books (for caching book information):

id (integer primary key) OpenLibrary	title (text)	cover_url (text)	author (text)	summary (text)	pages (text)

’s work id					

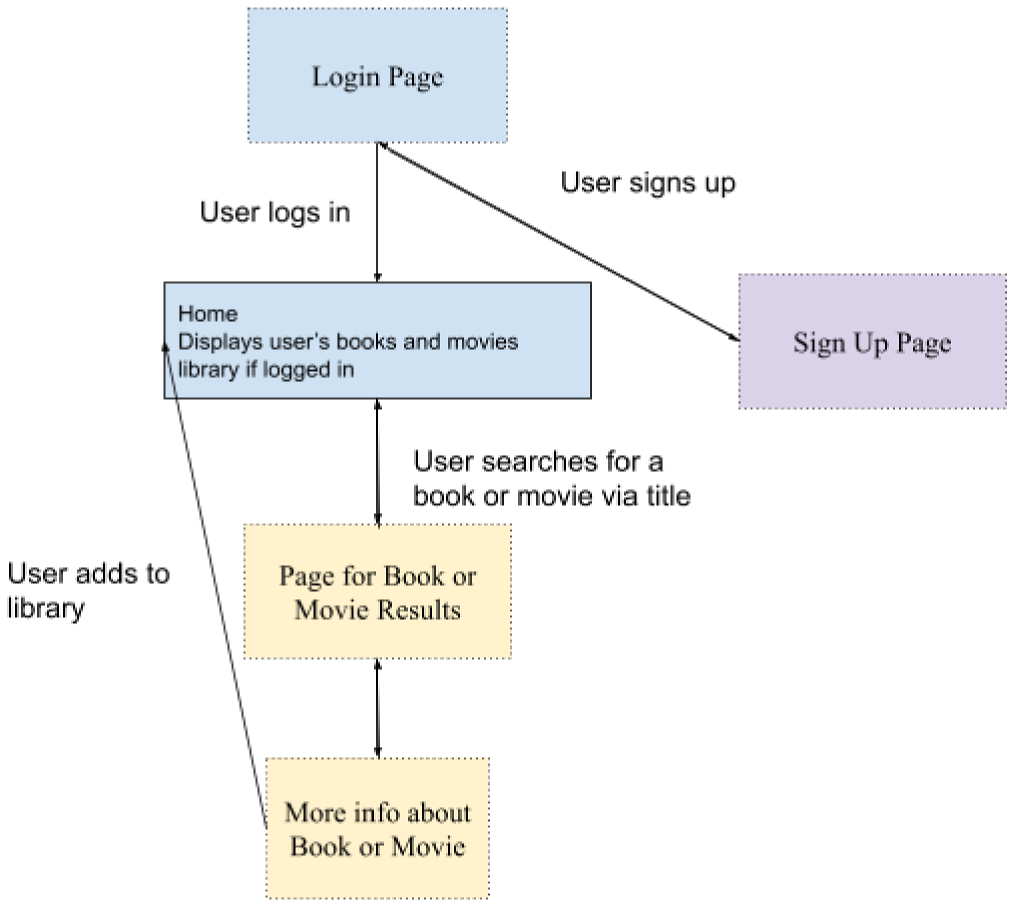
entries: whenever a user adds a book or movie to their library, a new entry is added with their user id and the id of the thing they added

type (text) either “book” or “movie”	user_id (integer)	media_id (integer) the id of the book/movie	complete (boolean)

APIs used:

- IMDB API
  - Provides information (cast, ratings, trailers, posters) about movies with many ways of searching for them
- OpenLibrary API
  - Retrieves information about books using many book APIs
- NYT Movie and Books Reviews API
  - Provides subjective information about movies or books

Site Map:


Login Page
User logs in
User signs up
Home
Displays user's books and movies library if logged in
Sign Up Page
User searches for a book or movie via title
User adds to library
Page for Book or Movie Results
More info about Book or Movie

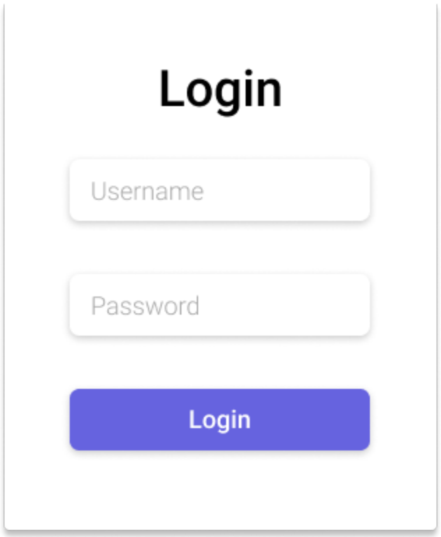
Front End Framework (Bootstrap):

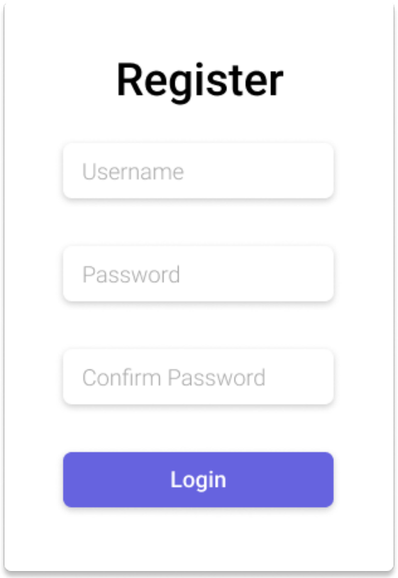
We're using Bootstrap because we like the CSS styling they have. The default styling is cleaner and easier to implement, thus, easily giving our website more of a professional feel to it. We believe it has more features than Foundation. It also has a lot more documentation than Foundation because it is a very popular framework. Compared to Foundation, which for the most part requires a download, Bootstrap allows you to use the CSS through 1 to 2 external stylesheets. Lastly, it is more difficult to find ways to use Javascript in Foundation than in Bootstrap.

Template Representations:

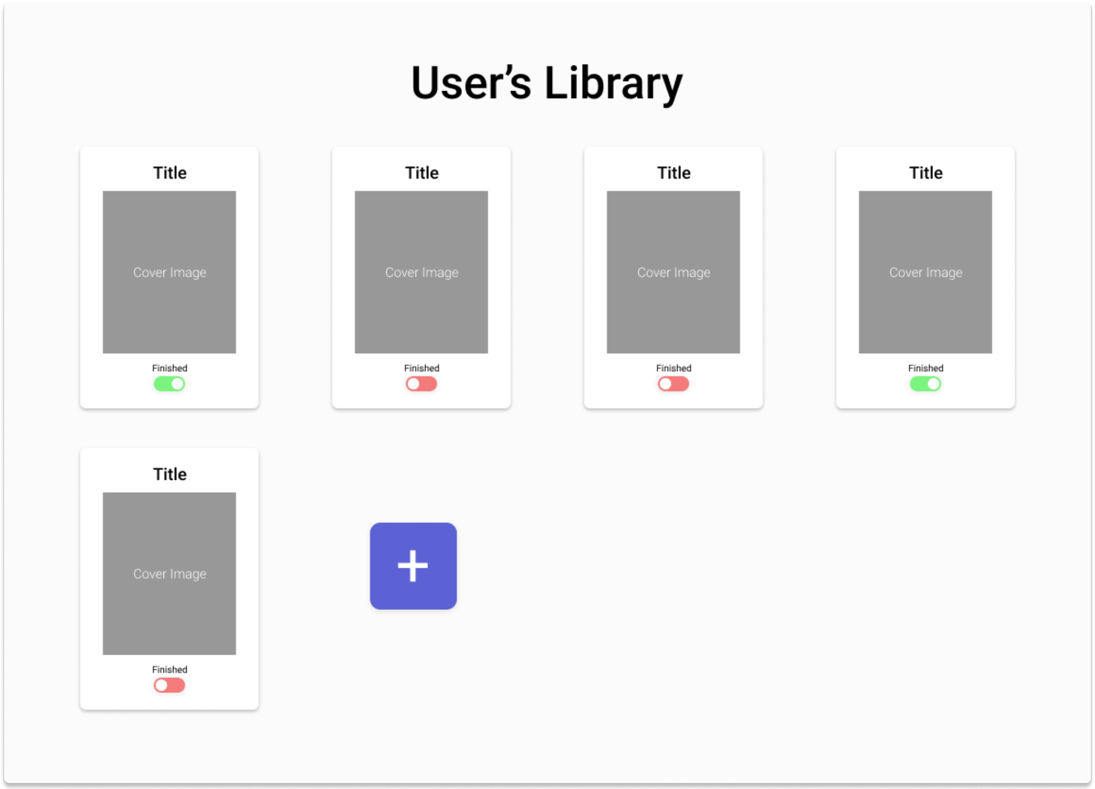
NOTE: design and color are subject to change (in particular the library "finished" switches, cause it may need JS to work properly)

Login: Register:

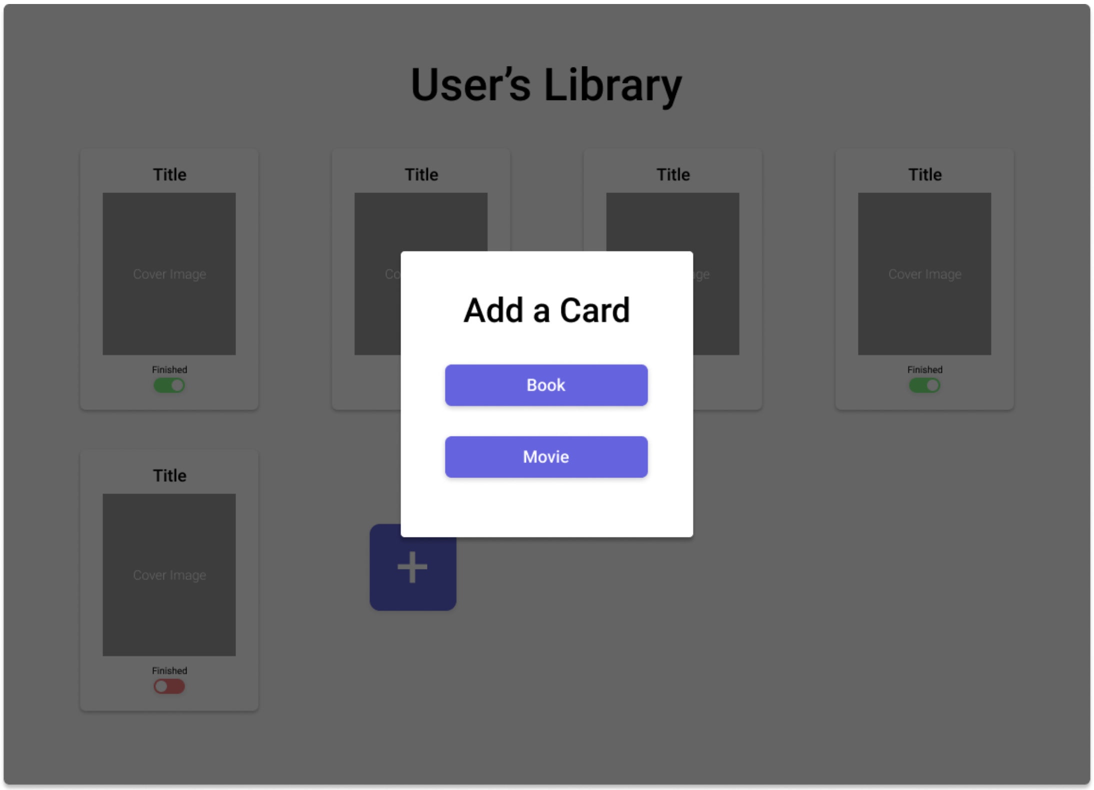




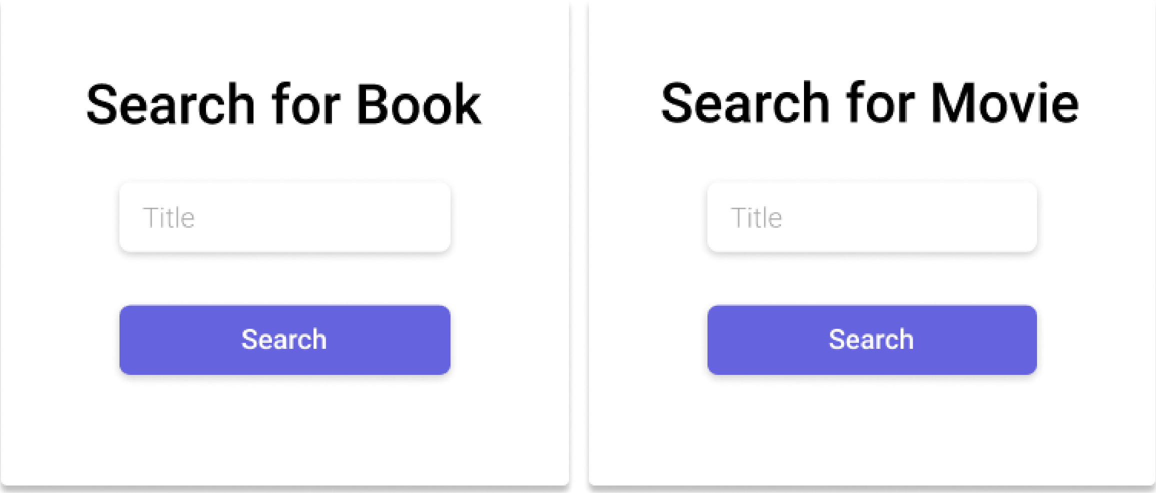
Library:



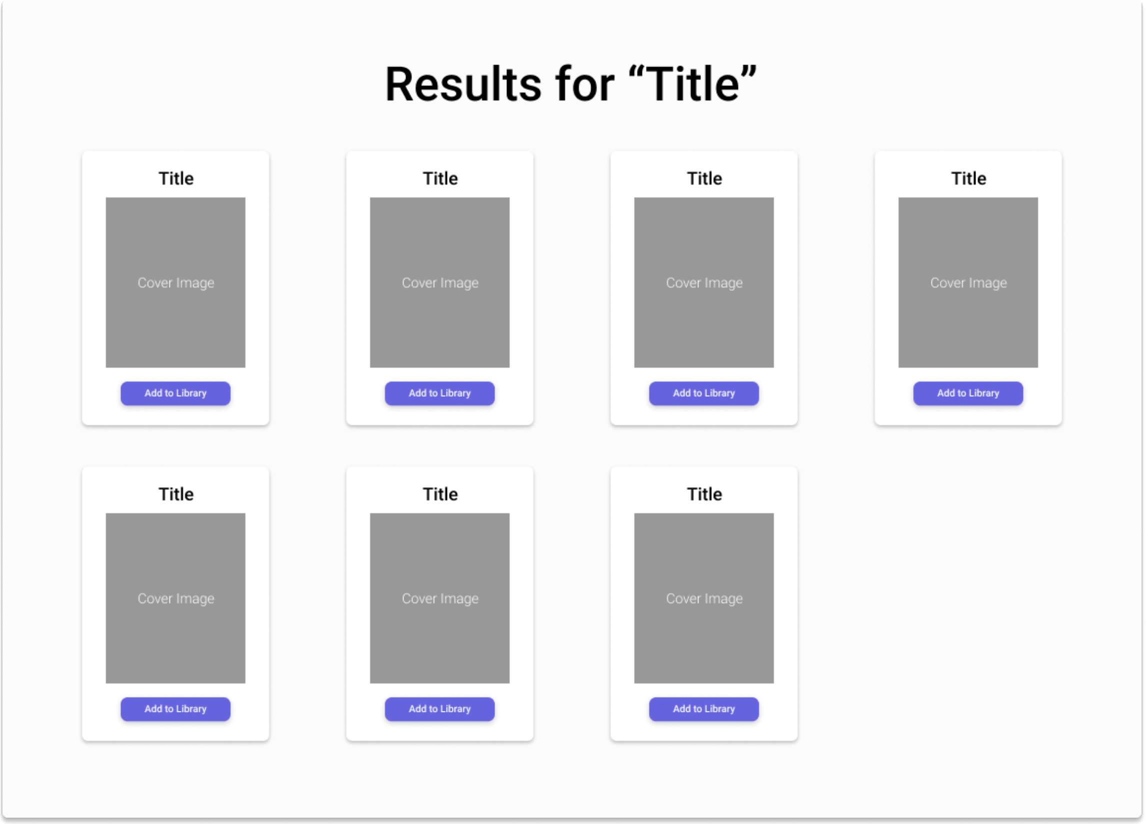
Select card type modal (pop up)



Search:



Results:



Division of Tasks:

Wen Hao: Project Manager and Database
Austin: Flask
Liesel: Bootstrap / Templates
Rachel: Flask

Target ‘ship date’: 12/23/21