

Suspenseful Lukewarm Hats - Jun Hong Wang, Ravindra Mangar, Aden Garbutt, William Guo
SoftDev pd7

P01: ArRESTed Development

2022-12-02

Target ship date: 2022-12-19

F.E.F Chosen: Bootstrap

- We chose to use bootstrap because it is more comprehensive with its labeling allowing us to clearly differentiate what we are working with
- Also has brighter colors for alerts, badges etc (aesthetics, just looks better)
- Intend to use the navigation bar from bootstrap as well as cards for organization and showcase of movies

APIs:

- [MyAnimeList API \(beta ver.\)](#)
- [Netflix Roulette: What Should I Watch? | Reelgood](#)
- <https://ghibliapi.herokuapp.com>
- [Watchmode - Streaming Availability Metadata API for Netflix, AppleTV+, Disney+, Hulu, HBO Max, Prime Video & more](#)
- May be used based on if restful or if useful:
 - <https://serpapi.com/search-api> (rest?)
 - Basically inputs stuff to google search and it returns data
 - <https://rapidapi.com/InternationalShowtimes/api/international-showtimes> (14 day free trial)

Necessary Components:

- Login Screen + Account Registration
 - Login in using username and password
 - Create new account
- Home Page
 - with a "give me a recommendation" button, that gives you a randomly generated film (completely random)
 - A search bar that allows you to search movies by title
- Nav bar (at top of all pages)
 - includes different categories of movies in dropdown menus
- Search bar (at top of all pages)
 - Look for specific movie titles in APIs
- Backend databases
 - Account information, saved movies of user, user preferences

Priority:

- Functioning navigation bar with different genres
- Login information
- Cards with movie information taken from APIs

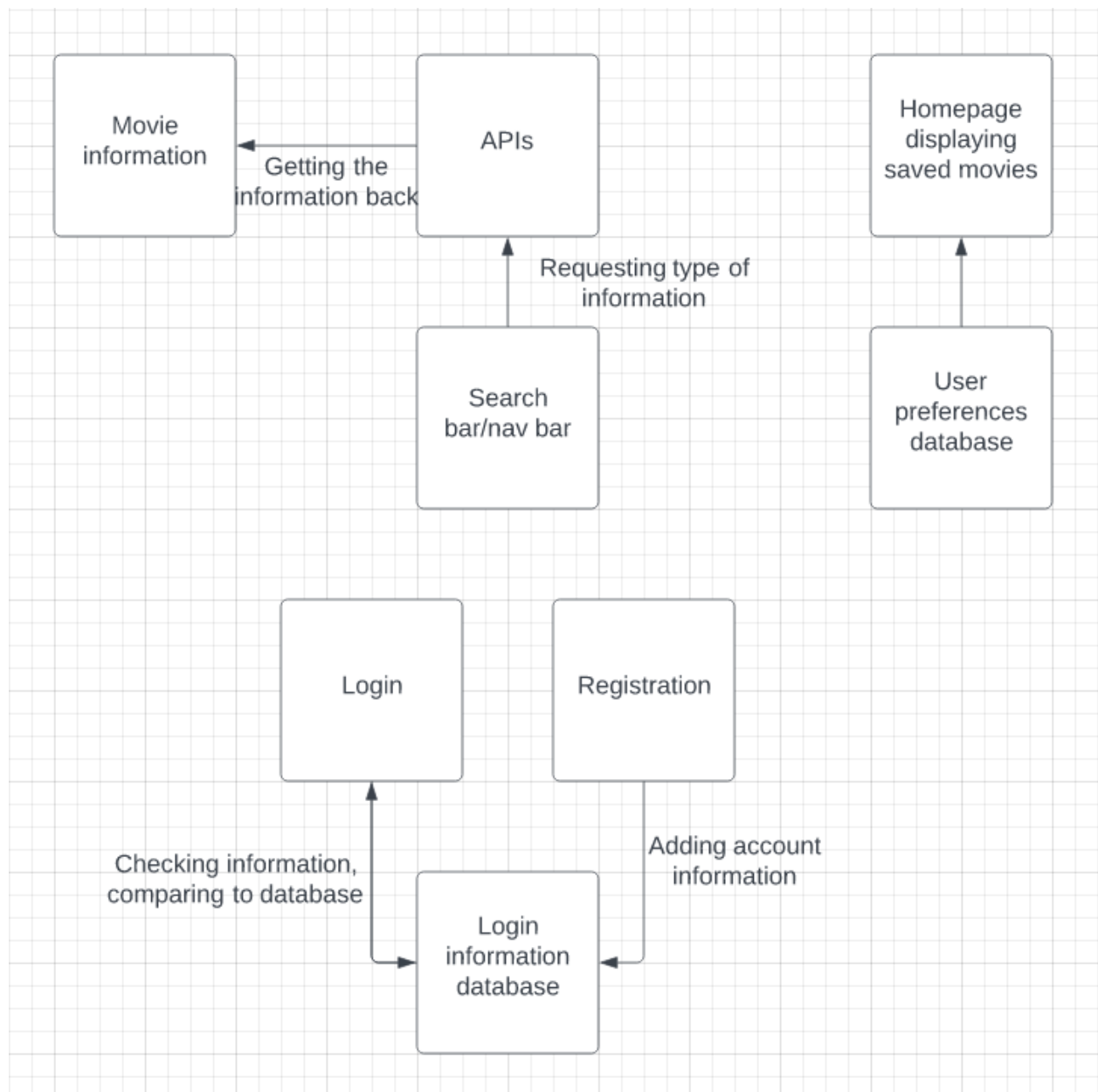
Reach goals:

- User preferences like dark mode/light mode
- If API allows, getting information about local showings of a movie

Relationship between components:

- If you have an account, you can login in using username and password which will take you into the home page
 - If not, it takes you to new page to register new account then redirects to home page as well
- Home page contains a navigation bar with a drop down feature containing the different genre of films that the APIs contain
 - Redirects to page with all movie titles showcased in card with poster
- Search bar allows users to search movie by title and then displays the movie information (image, casts, reviews etc)

Component Map:



Search results will show up in cards, and incomplete queries should still work

Organization:

- 2 database;
 - Login with username and password

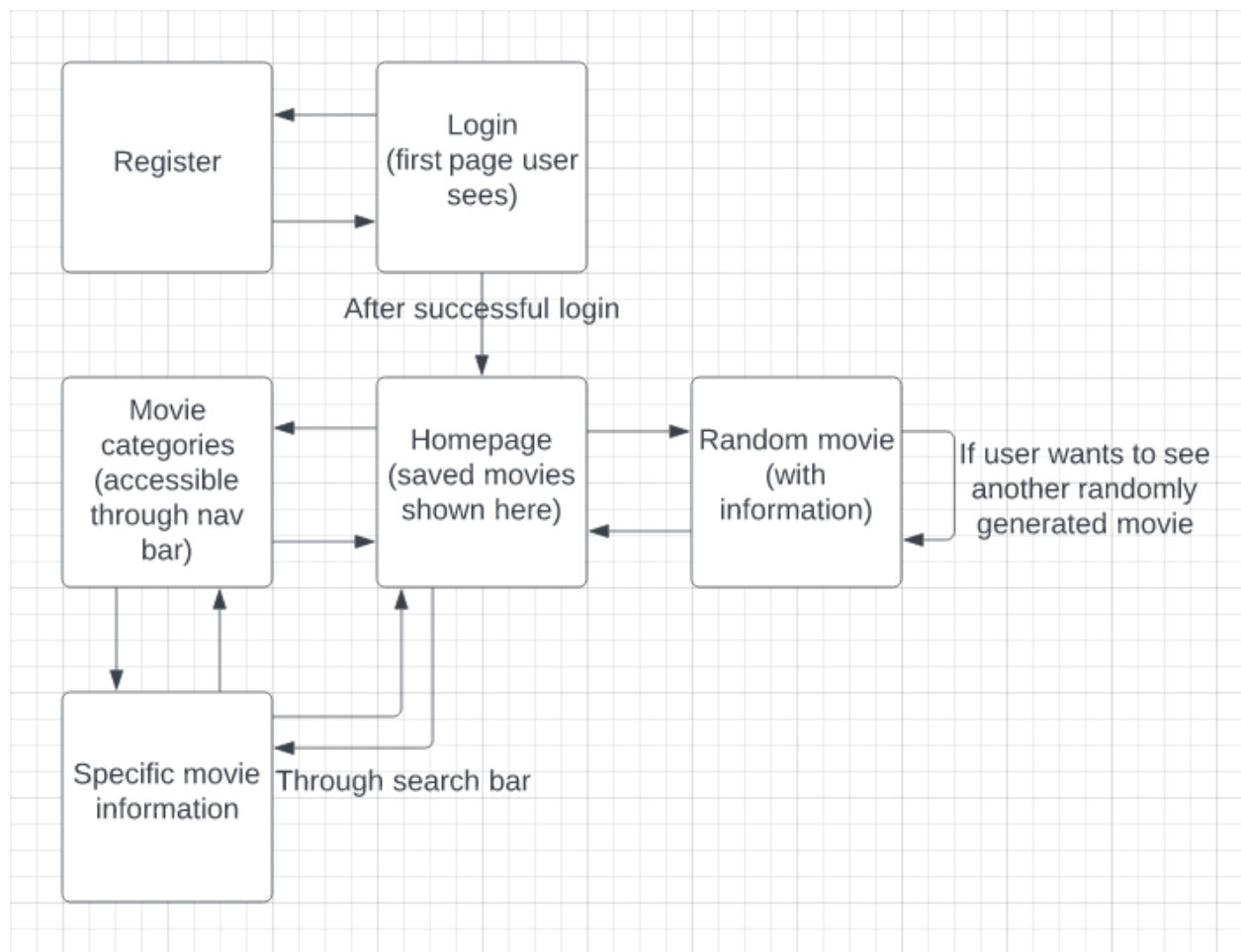
Username (TEXT_UNIQUE)	Password (TEXT)
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- Username and passwords stored in two column table so when user logs in, it can verify if password matches (possibly hashed if time permits)
- List of saved movies from user

Username (TEXT_UNIQUE)	Movies (TEXT)
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- Saved movies are in a long string of text, can be easily converted to a python list

Site Map:



Movie results when selecting genre will be sorted alphabetically.

Assignments (pretty flexible):

Jun Hong: PM (and helping out wherever there's trouble)

Ravindra: Databases

William: Bootstrap Styling and CSS (make website look cool)

Aden: Python

All: Familiarity with the APIs, knowing what's happening in the program (but specializing in their assigned roles)

Schedule:

- Guessing that project will be due on 12/19 or 12/20 due to at least 3 days of presentations before break, also last project took about 2 weeks with a few days of presentation
- V0 design doc due 12/6, with updated design docs every time design shifts considerably
- Initial website skeleton by 12/9
- Bootstrap & CSS in place 12/14 (at this point we should have a minimum viable product, presentable, but not with every feature we want)
- Cleaning up 12/16
- Final preparations 12/17 and 12/18 (any final touches, last minute bug fixing, practicing demonstrating)
- Everything done by 8am 12/19