

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

P01: ArRESTed Development

2022-12-20

Target ship date: 2022-12-21 (demo-worthy product), 2022-12-23 (final product)

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](#)
- [Watchmode - Streaming Availability Metadata API for Netflix, AppleTV+, Disney+, Hulu, HBO Max, Prime Video & more](#)
- [Google Search Engine Results API - SerpApi](#)
  - Basically inputs stuff to google search and it returns json data of that page
- [OMDb API](#)

Necessary Components:

- Login Screen + Account Registration (login + logout)
  - Login in using username and password
  - Create new account
  - Logout button on all pages
  - If user already logged in, redirect to home page
- 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, showing information like a poster, plot summary, etc
- Pages for movie, shows, animes we display
- 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
- Python file that deal with all the routes, error handling, user authentication, api calls
- Backend databases
  - Account information, saved movies of user, user preferences

Priority:

- Functioning navigation bar that allows user to traverse through pages

- Login information
- Cards with movie information taken from APIs

Demo-worthy goals:

- Functional navbar
- login/logout
- Cards with movie information taken from APIs
- Main feature: **Give me a recommendation button**

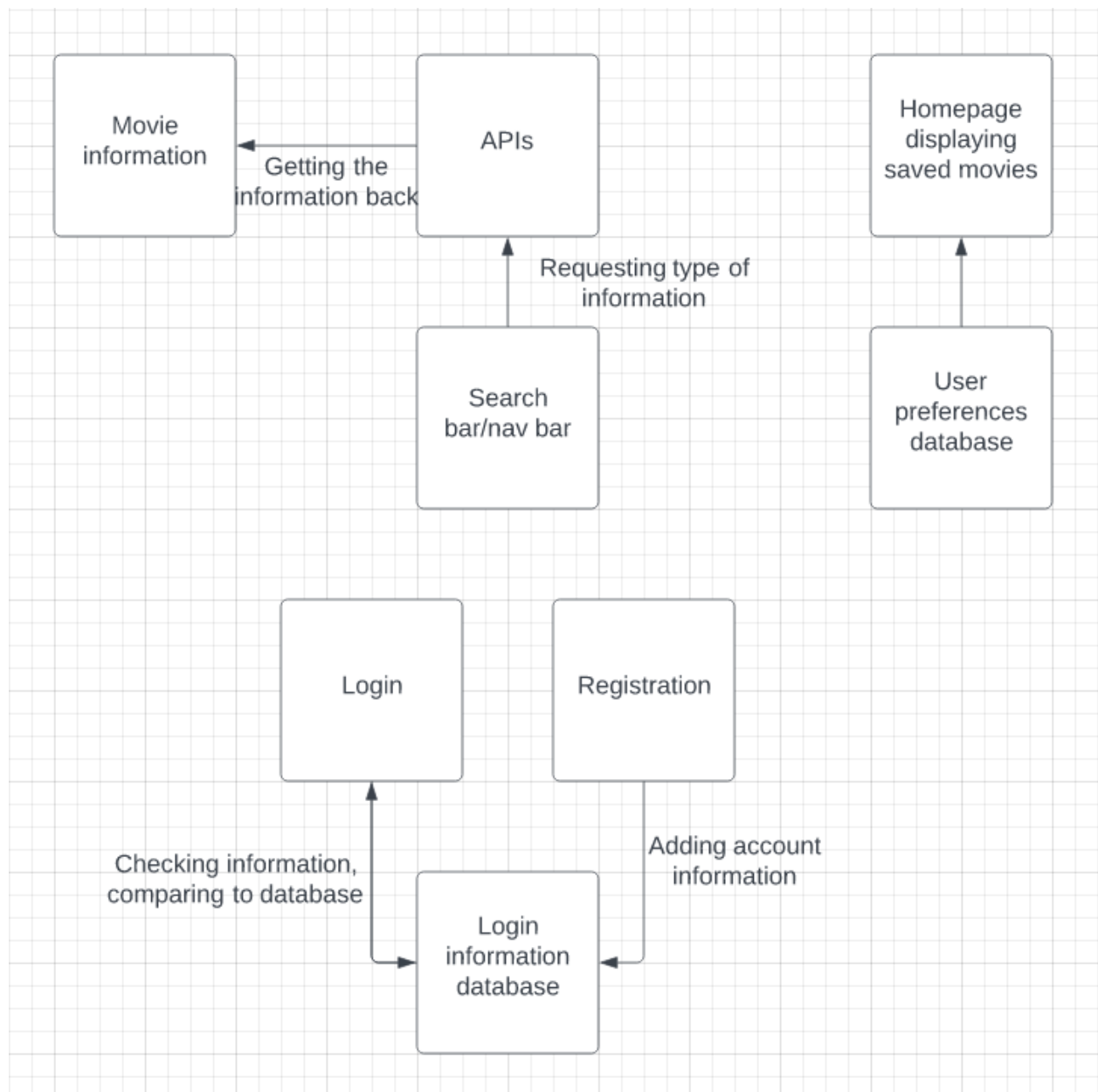
Reach goals:

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

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

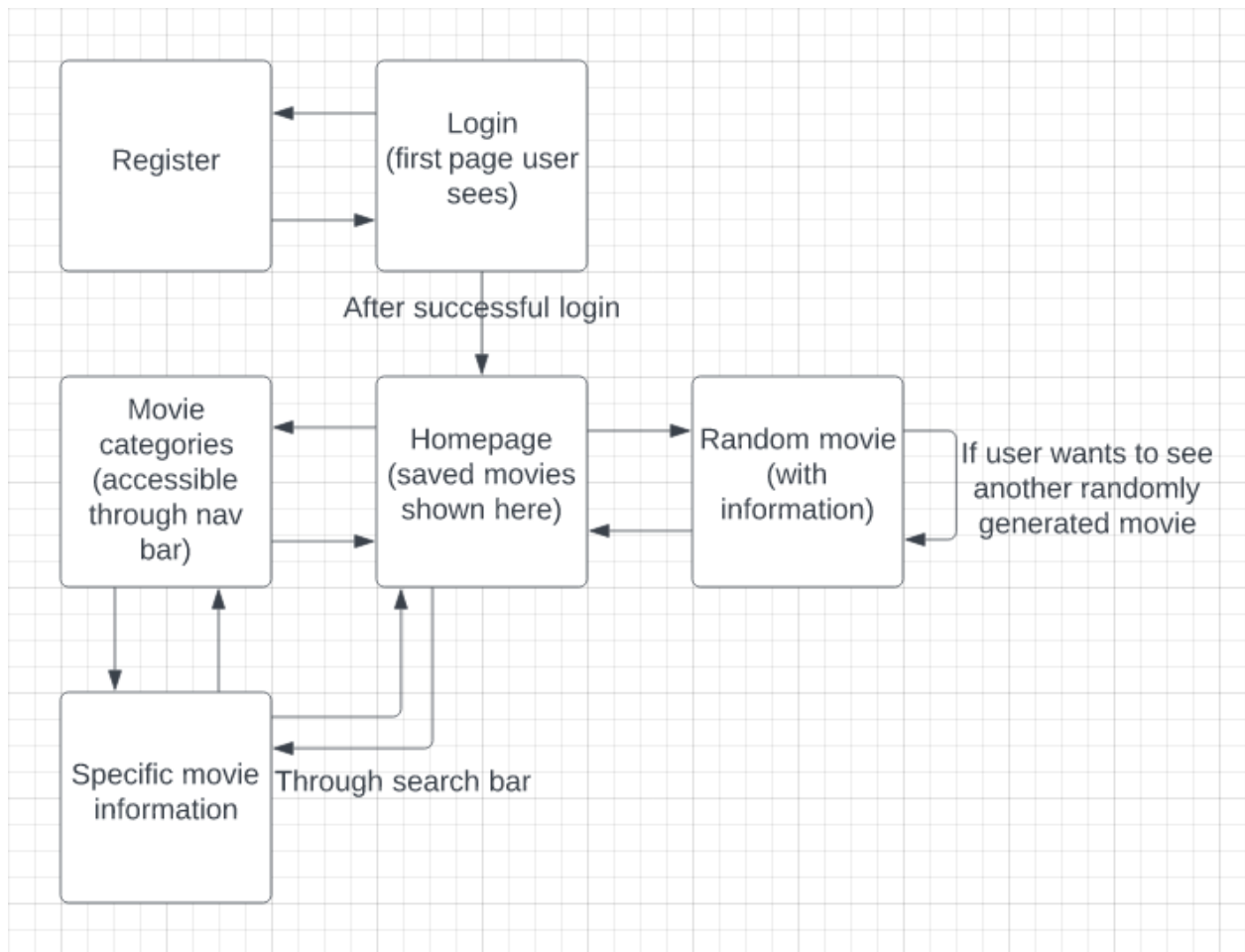
Username (TEXT_UNIQUE)	Password (TEXT)
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- Username and passwords stored in two column table so when user logs in, it can verify if password matches (possibly hashed if time permits)
- List of saved movies from user

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, basic foundation stuff (and helping out wherever there's trouble)

Ravindra: Databases

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

Aden: connecting forms with python + APIs

All: work with APIs to maintain familiarity, link the information from the APIs together

### Schedule:

- \*\*Project due 12/23, presentations start 12/21\*\*
- 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 12/16-19
- Final preparations 12/19-12/21 (any final touches, last minute bug fixing, practicing demonstrating)
- Demo-worthy by 8am 12/21
- Changes based on audience feedback 12/22
- Final product 12/23

Bootstrap stuff to use:

- Colors (<https://getbootstrap.com/docs/5.2/customize/color/>)
- Cards for movie poster
  - Collapse (js) with information, so when the card clicked, movie info shows up?
- Carousel for funz, maybe most popular movie so far? Newest release?
- NavBar(diff genre with integrated search)
  - Js Navs and tabs so that when you switch, it highlights which tab you on?