

LostAndFoundation | Joseph Jeon, Nakib Abedin, Sasha Shifrina, Yat Long Chan
SoftDev
P01 - Design Doc
2022-12-03
Time Spent: 1.0 hrs
Target ship date: 2022-12-19

Project Description

This project is an online cataloging app that:

- Displays information about movies and TV shows
 - Allows users to compile their favorite movies and shows
 - Allows users to edit their profile
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Components

Front-End Framework: Foundation

- Because when we experimented with it, we found the foundation card features to be really nice and easy to use.
- We believe that using these cards will help us make our website look much better
- We also found foundation to be more customizable

Homepage:

- User must be logged in to view this page
- Will have a row to show the user's favorite movies
- Will have other rows that shows pre-selected movies based on genres
- Each movie will be displayed as a card that has the movie poster and the movie title. Once you click on the card, you will be directed to the movie page for that specific movie

Movie Page:

- Will display the information about the movie
 - Title
 - Director
 - Cast
 - Genre
 - IMDB Ratings
 - Plot Summary
 - Will be retrieved via OMDB
- Will have a trailer embedded in the website
 - Will be retrieved via WatchMode API
- Will have cards with links to the websites that the movie can be streamed on
 - Will be retrieved via WatchMode API

User Profiles:

- Each user will have a username, password, and profile picture
- The username and password will be used to log-in to the site.
- A random profile picture will be generated via an API call for each new user.

Login Page

- The landing page
- Logging in successfully will send the user to the homepage.
- Username and Password will be required fields
- If login successful, user will be redirected to the profile page
- Will contain a link to the signup page (if user doesn't have an account and clicked this link)

Signup Page

- Username and Password will be required fields
- Password must be at least 10 characters long
- Will contain a link to the login page (if user already has an account but accidentally clicked on this link)

Profile Page

- Will show the user their profile information
- Will show the user their profile picture (default pfp randomly generated)
- Will allow user to edit their username and edit their pfp

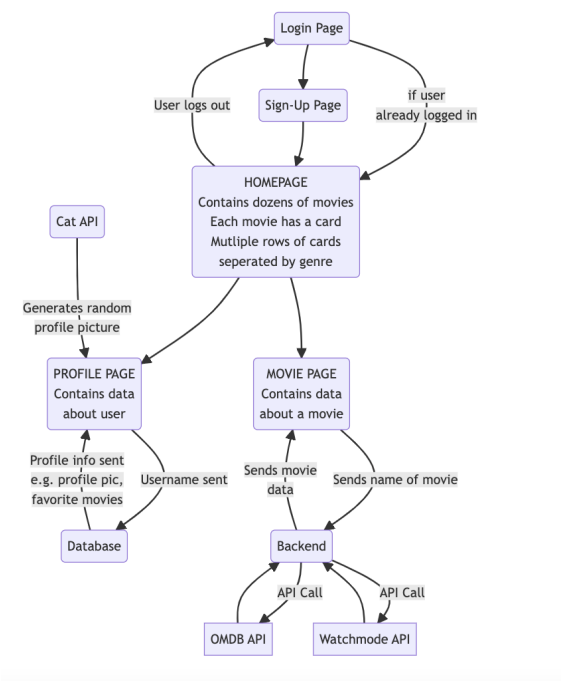
Database Organization

Username	Password	Profile Picture
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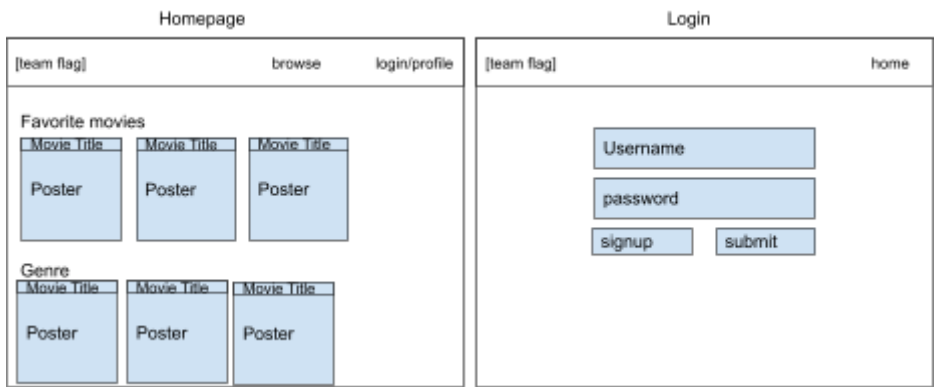
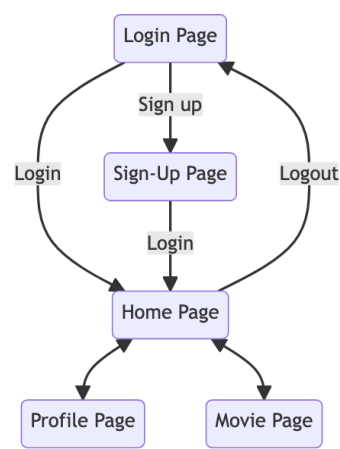
IMDB id	Name of Movie	Year Released	Synopsis	Trailer Link	Poster
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Diagrams

Component Map



Site Map



Signup

[team flag]

home

Username

password

Confirm password

submit

Movie page

[team flag]

home

browse

login/profile

Title + poster

Info

Trailer

Where to stream

Profile Page

[team flag]

home

PFP

Change pfp

Current username

Edit username

Save

Task Distribution

Frontend (Joseph, Sasha) - Responsible for HTML and CSS, learning about Foundation, and some Flask development.

Database (Nakib, Sasha) - Responsible for the SQLite database and Python functions related to said database.

Non-database backend (Yat Long) - Responsible for gathering information about APIs, functions involving said information, and Flask development

APIs

OMDB API:

- An API that has information about movies
- This includes year published, cast, poster, directors, etc.
- Includes the IMDB id which we can pass to the WatchMode API

WatchMode API:

- An API that has information about where a movie can be streamed (e.g. HBO, Netflix, Hulu) and also includes a link to a trailer
- We can embed the trailer and list the sites in which the movie can be streamed
- Takes IMDB id generated from OMDB API

Random Duck API:

- Will be used to generate random images of ducks which will be the default profile pictures for the users
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