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

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:
- 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
- Via a link from the Home Page, a user will be able to login to an existing profile.
- Logging in will unlock a host of new features which includes ...
- 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 allow users to input personal information (e.g. name, date of birth, etc.)
- Will show the user their profile picture (default pfp randomly generated)
- Will allow user to edit any of their personal information and edit their pfp

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Database Organization

Username	Password	Profile Picture

IMDB id	Name of Movie	Year Released	Synopsis	Trailer Link	Poster

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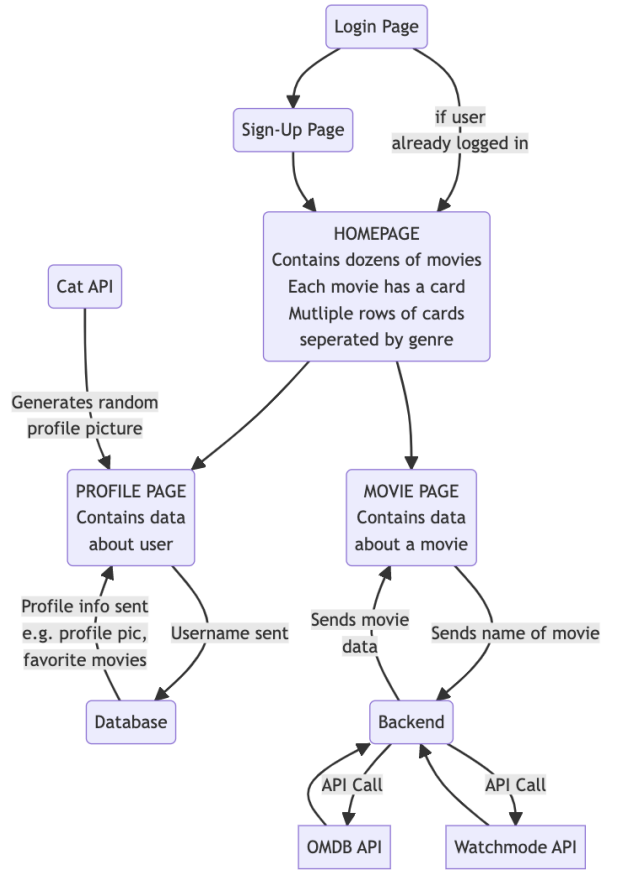
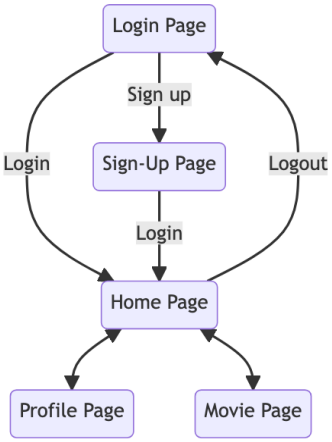
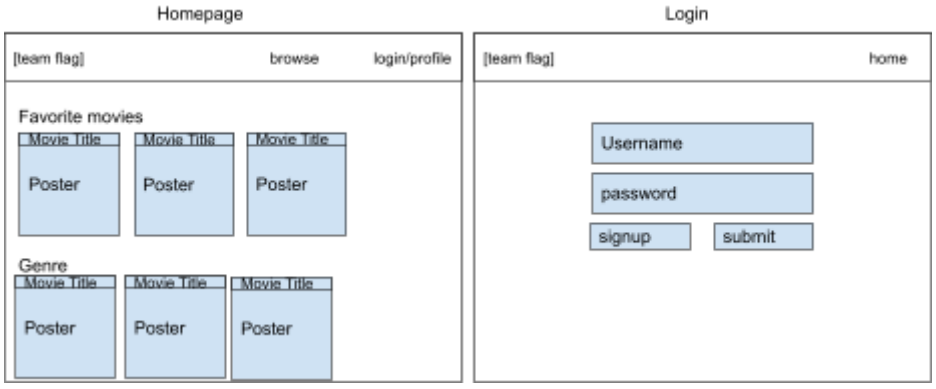
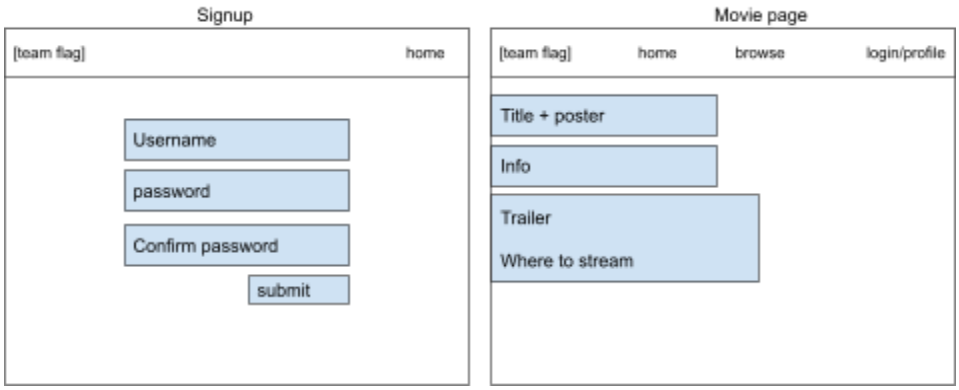
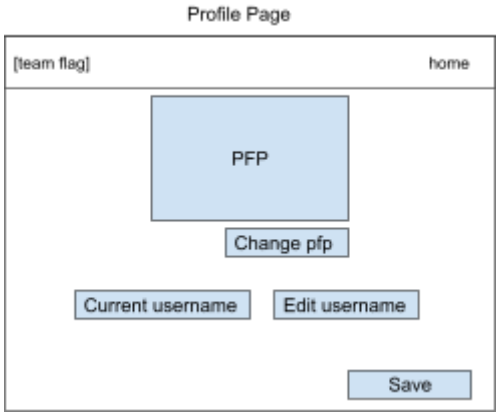
Diagrams


Login Page
Sign-Up Page
if user already logged in
HOMEPAGE
Contains dozens of movies
Each movie has a card
Mutliple rows of cards
seperated by genre
Cat API
Generates random profile picture
PROFILE PAGE
Contains data about user
MOVIE PAGE
Contains data about a movie
Profile info sent e.g. profile pic, favorite movies
Username sent
Sends movie data
Sends name of movie
Database
Backend
API Call
API Call
OMDB API
Watchmode API


Login Page
Sign up
Login
Sign-Up Page
Logout
Login
Home Page
Profile Page
Movie Page


Homepage
[team flag]
browse
login/profile
Favorite movies
Movie Title
Poster
Movie Title
Poster
Movie Title
Poster
Genre
Movie Title
Poster
Movie Title
Poster
Movie Title
Poster
Login
[team flag]
home
Username
password
signup
submit





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

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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

Cat API:

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

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