

### **Ideas we had**

1. Correlate crime rate and house/apartment renting, provide a safety ranking for each house/apartment.
  - a. Using API to get data for the crime rate and mark it on the map by red dot.
  - b. Get the data for available residence/restaurant, and see if it belongs to an area with lots of crime rate, and decide its safety rank.
2. Recommend a show based to watch based on your mood or the amount of time you have
  - a. Can also add in moving reviews or search by genre
  - b. Can also add in different apis that will show you specific titles depending on if you are subscribed to apps such as netflix or hulu
3. Stocks or cryptocurrency
  - a. Calculate recent trends of increase or decrease
4. Transfer music between different music platforms
5. Recommend games based on: price, play time, or reviews
  - a. Cheapest price history or recent sales they might have on amazon or steam
  - b. Choose a game based on mood
6. Recommend a show/movie based off the type of food/how much food you have
7. Saves all the tabs you have open under a title (for when you have a million tabs open)
8. Playlist that is generated based off your running speed/rhythm
9. Playlist generated to match the length of your trip

### **Two Ideas**

1. Our app will focus on the user's mood or previous watch history as our inputs into the system. Next, it will take those inputs and analyze them depending on the input. If their mood is used as an input then we can choose an appropriate list from the most recent or popular now from multiple viewing platforms such as Netflix, Hulu, Disney+ etc. The same could be done for the input of a list of recent watch history. However for this specific input we could also look at multiple parameters including runtime specific genres or maybe even the cast in the movies. As for specific APIs that we are looking into using in the app is one for the movies or tv shows such as Utelly API which covers movies and tv shows across multiple streaming services such as Netflix, Amazon Prime Videos, and Rakuten tv.
  - a. APIs
    - i. <https://www.programmableweb.com/api/youtube>
    - ii. <https://www.programmableweb.com/api/bbc>
    - iii. <https://www.programmableweb.com/api/itunes-app-store-search>
    - iv. <https://www.programmableweb.com/api/open-movie-database>
    - v. <https://developers.themoviedb.org/3/genres/get-movie-list>
2. This app will first take in a running speed. It will then generate a playlist based on the specified speed. Some more possible features could include the ability to take into account previous music history or taking into account the user's mood. It could also take in the runner's previous jogging history as to estimate the amount of time the user may run and the average speed they run at.

a. APIs

- i. <https://www.programmableweb.com/api/itunes-app-store-search>
- ii. <https://www.programmableweb.com/api/spotify-web>

“as a <specific actor> I want to  
<some action> in order to <benefit>”

Inputs:

- Mood
- Recently watched movies/shows
- Favorite Actors

Outputs:

- Recommended shows/movies
- Recently released shows/movies
- Popular among other users
- Genre
- What platform the movie is on
- What similar users watched

1. As a user without an account, I want to input my movie preferences/whatever else in order to create my account (Edward)
2. As a logged-in user, I want to input my mood in order to get a recommendation of shows (Jack)
3. As a logged-in user, I want to input my recently watched shows/movies in order to get a recommendation of shows (Gavin)
4. As a logged-in user, I want to input my favorite actors in order to get a recommendation of shows (Jordan)
5. As a user without an account, I want to be able to have certain options and not just have a blank screen or keep telling me to log in. (Sijie)

### Old User Stories

## **Logged In User should be able to input their favorite actors and get a recommendation of shows/movies**

### **Description:**

**As a** Logged In User

**I want to** input my favorite actors and get a recommendation of shows/movies

**In order to** find shows/movies that my favorite actors are in.

### **Acceptance Criteria:**

**Given** I visit the search page

**When** I click the “Favorite Actors” filter, input my favorite actors, and apply the filter

**Then** a list of movie/show recommendations that involve one or more of my favorite actors will be returned

### **Exceptions:**

**If** I input the name of an actor that has no movies associated with them

**Then** I will be provided a list of actors with similar names

**If** I do not input any actor’s name and apply the filter

**Then** A prompt stating to input one or more actors will be displayed

**As a new user, I should be able to create a new account and obtain access to the Web App.**

**Description:**

**As a new user**

**I want to** be able to create an account

**In order to** access the rest of the app content.

**Acceptance Criteria:**

**If** I click the button for new account,

**Then** I will be prompted to input a username and password.

**If** the username is valid and not in use,

**Then** I will be prompted to fill in some personal preferences,

The I will have created an account and gained access to the Web App,

**Exceptions:**

**If** the username is already in use,

**Then** I will be prompted to use another username.

**As a returning user, I want to be able to sign in to access the Web App and my personal recommendations of movies/shows.**

**Description:**

**As a** returning user

**I want to** be able to log in to my account

**In order to** be able check any new movies or shows that are recommended.

**Acceptance Criteria:**

**If** I enter in a valid username and password,

**Then** I will be logged into my personal account with my own profile.

**Exceptions:**

**If** the username is non-existent,

**Then** I will be prompted to try again while indicating that the username does not exist.

**If** the username is valid but the password does not match the username,

**Then** I will be prompted to try again while indicating that the password does not match the username.

**If** the username and the password are both valid and match,

**Then** I will be logged in and have access to the content in the Web App.

**As a logged-in user, I want to input my recently watched shows/movies in order to get a recommendation of shows**

**Description:**

**As a** logged in user

**I want to** input my recently watched shows/movies

**In order to** get a recommendation of shows

**Acceptance Criteria:**

**If** I enter in valid shows/movies

**Then** I get back a list of recommendations

**Exceptions:**

**If** the shows/movies do not exist/cannot be found in our database

**Then** I will be notified of this fact and be asked to try again

**If** there aren't enough shows/movies in the profile

**Then** I will be prompted to enter in more shows/movies

# **As a logged-in user, I should be able to input my mood in order to get a recommendation of upcoming movies**

## **Description:**

**As a** logged in user

**I want to** input my current mood

**In order to** get a recommendation of shows

## **Acceptance Criteria:**

**If** I click the mood button

**Then** I will be able to choose my current mood among 6 different categories of mood we provided. (happy, sad, depressed, romantic, angry, scared)

**If** I finalize my answer

**Then** I can rank from 1 to 5 of my current mood, and get back a list of recommendations

## **Exceptions:**

**If** all 6 categories of mood are not well described my mood,

**Then** I will be able to click the "Can't find your current mood" section, and type in my current mood, and we will do our best to fit into one or combination of these categories.

**If** my current mood still can not find the best place to fit into the model

**Then** I will be notified of this fact and be asked to try a different words to describe your mood

API:

# **As a user without an account, I want to be able to have certain options without having an account or being logged in**

## **Description:**

**As a** user without an account or logged in

**I want to** be able to view and do things

**In order** to explore the app

## **Acceptance Criteria:**

**If** I enter the app or click on something, it should not keep prompting to create an account

**Then** I can explore the app before I decide whether I want to create an account or not

**If** I choose to use the app

**Then** I should be able to view and use certain features even without an account. I won't be prevented from using the app because I don't have an account, unless there is a special feature that only users without accounts can use.

## **Exceptions:**

**If** I choose to not create an account

**Then** I will not be prompted to create an account until the next time I enter the app after closing it

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<https://prod.liveshare.vsengsaas.visualstudio.com/join?7D19158FA48CF002DA7674DE796985FAC15C>



## **Possible APIs we could have used and some useful articles**

[https://api.themoviedb.org/3/movie/550?api\\_key=fe198c3817bf7eb40d02b4b22aacfe20](https://api.themoviedb.org/3/movie/550?api_key=fe198c3817bf7eb40d02b4b22aacfe20)

<https://api.stoplighr.io/v1/versions/9WaNJfGpnnQ76opqe/export/oas.json>

<https://www.npmjs.com/package/node-themoviedb#usage>

<https://imdb-api.com/api> Possible option for api2?

How to login:

<https://medium.com/@jackrobertscott/how-to-use-google-auth-api-with-node-js-888304f7e3a0>

<https://tastedive.com/read/api>

### **Features that we tried to implement**

- Login
- Recommend movie by mood
- Online providers for a movie
- Ask for: would you like to know more about the movie?
  - Use <https://imdb-api.com/api> to get the description
- Give back trailer using <https://imdb-api.com/api>

### **Documentation about what we did**

Our app recommends movies to the user based on different categories and we can also get information about the movies of your choosing. When you first open our application, an account needs to be made or you can login from Google. The only way to use our application is to have an account. After creating an account, there are 4 cards you can use to get back different types of information.

The “Providers” card allows you to type in the name of a movie and get back the name of different providers of the movie. There might be a movie you want to watch online, but you don’t know what platforms online have that movie. In a time like this, many people wouldn’t want to watch movies in the movie theater. The “Popular Movies” card allows you to choose a number from the dropdown menu. A list of latest playing movies in the order of their popularity is returned. The list would have  $n$  movies, where  $n$  is the number you chose from the dropdown. Being that conditions are better than when things first started, there are many people that want to go outside and meet with friends. Some people may want to go to the movies with their friends, but don’t know what movies are currently playing. “Popular Movies” not only gives back the latest movies, but returns them in order of popularity so that people know what movies have lured in other people. Then, we have the “Mood” and “Trailers” cards. The “Mood” card allows you to choose a mood from the dropdown and a list of movies will be displayed based on the mood chosen. The list of movies is upcoming movies that are going to come out. You might be in a certain mood or watch a movie that would put you in a certain mood. The movies returned to you would put you in the mood you chose. The “Trailers” card allows you to type in a movie name and you get back the trailer of the movie. There could be a movie you know the name of, but don’t know if you want to watch it. Watching a trailer of the movie may allow you to determine what you want to watch.

For our app we used 2 apis: the moviedb api and the imdb api. The websites for the apis are [api.themoviedb.org](https://api.themoviedb.org) and [imdb-api.com](https://imdb-api.com), respectively. An issue we were having was that the only way to get information off of the moviedb api was using the moviedb id for the movie. However, we don’t know what the ids are and you can only search one id at a time. We found the moviedb api actually has a list of the latest movies, so we decided to do things with that. The cards “Popular movies” uses the

moviedb API. The cards “Mood” and “Trailers” use the IMDB API. The “Provider” card uses both APIs. The moviedb API can return the online provider of a movie, but no way to search movies and get back their ID. However, there is a way to get back the information from the moviedb API about the movie based on external IDs. We had to first search movies in the IMDB API and get back their IMDB IDs. Then, use the IMDB ID to get the moviedb ID, in which we can use to find the providers.