

Problem Statement and Goals

Flick Picker

Team 7, 7eam
Talha Asif - asift
Jarrod Colwell - colwellj
Madhi Nagarajan - nagarajm
Andrew Carvalino - carvalia
Ali Tabar - sahraeia

Table 1: Revision History

Date	Developer(s)	Change
September 25, 2022	Jarrod Colwell	Initial Problem Statement Section
September 26, 2022	Jarrod Colwell	Updated formatting and added environment
September 26, 2022	Andrew Carvalino	Added Goals and Stretch Goals sections
...

1 Problem Statement

1.1 Problem

7eam will be developing a system to enable individuals or groups to find movies, tv shows, or anime that are compatible with an individual or group based on a variety of factors.

Current solutions exist, however, they are mostly catered towards the individual and have lacking support for groups. In order for a user to emulate a group, they would need to figure out what the common likes and dislikes of the group are, the time constraints of each individual, as well as any other important factors that can be inputted. This process is slow and will often cause certain members' preferences to be left out or devalued.

- Flick picker will allow for an individual to find a movie, tv show, or anime that fits their preferences.
- Flick picker will allow for a group of individuals to find a movie, tv show, or anime that most closely fits the preferences of the group.

1.2 Inputs

- Users will input various preferences regarding movies, tv shows, and anime.
- Users will create a group that can consist of one or more people.

1.3 Outputs

- Flick Picker will output a set of movies, tv shows, or anime that fits the combined preferences of the group as closely as possible.

1.4 Stakeholders

- Dr. Spencer Smith
- 7eam
- Potential Users

1.5 Environment

Flick Picker will be available as a web application.

2 Goals

2.1 Cater to Users' Interests

Allow for a wide variety of different categories and subcategories that a user may choose, in order that the system may provide a list of relevant recommendations.

2.2 Find Common Interests

Find content that meets some common criteria of all users in a group.

2.3 API Data Collection

Will obtain all necessary information on shows and movies through API services, such as myanimelist so that the developers will not need to acquire and update the information on their own.

2.4 Group Compromise

Should there be no overlapping interests between two or more users in a group, the system will either provide show or movie recommendations that are of a similar genre to what was selected (an "inbetween" solution), use a tie-breaking mechanism (if one set of categories have more popularity in the group), or select options from the non-overlapping categories.

2.5 Web App Compatibility

Will work on multiple web browsers, such as Google Chrome, Firefox, etc. on desktop devices. The importance of this is to ensure maximum usability regardless of a user's preferred browser.

2.6 Create Account and Login

User will be able to create an account with their saved preferences and account settings that are stored and will persist for future logins.

3 Stretch Goals

3.1 Mobile Web Usability

System could be optimized for easier use on web browsers for mobile and tablet devices of various sizes.

3.2 Mobile App

An app may be made available on the Apple and Android stores for download.

3.3 Login with Other Accounts

Ability to log on to the system with another account, such as Facebook or Google.

3.4 Link with Streaming Accounts

Allow the users to link their account to their Netflix, Disney+, etc. so the user can watch whatever shows or movies have been recommended.

3.5 Show Ratings

Displays the ratings of recommended content from different sources, such as IMDb, in order to give the users more information within the app for their decision.

3.6 Separate Dev and Prod Deployment

For the purpose of allowing developers to push up code without harming user experience if errors arise from it.