

Media Tracking Website

Team Number: Group 1

Team Members:

Anusha Masroor

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Mai Komar

Elizabeth Ghreir

David Luu

Video link (meeting with customer):

<https://youtu.be/XXKfWaKtbEY>

Customer meeting summary:

We met with Emily (our customer), and she requested a show tracking application. The customer also requested the ability to favourite certain shows and have those shows appear on a different page. The customer also requested the feature to receive updates based on their favourite media list regarding any new seasons, and new episodes that are coming out.

The customer also mentioned that she would like the ability to rate the shows and then have an interactive discussion with other customers regarding those shows. According to the customer "After watching an episode, I feel like commenting. I want to join a discussion about its plot."

One concern that came up was the frequency that the data would be updated at and how recent this data would be. We mentioned that since the information found on the website is manually entered by one of the members of this group, it is not getting automatically pulled from any open-source movie database (such as Netflix, Disney, or Amazon Prime). For that reason, there might be a slight delay in getting the latest shows and releases.

Vision Statement

Overview of the app:

The Show/movie Tracking web app is designed for users who do not have streaming subscriptions but would still like to know about upcoming movies/TV shows. The web app provides an in-time notification up to their preference, recommends trending shows on major streaming platforms like Netflix, Prime, etc., and gives users a thread-like comment place that allows users to develop deep discussions to share their thoughts with friends or people who are also into the shows. It also functions as an integrated hub that saves users the trouble of jumping from one platform to another.

User type definition, what the users should do with the app:

Users can add their favourite shows to a watch list and receive updates about new seasons and episodes. The notifications can be customized in terms of frequency and method of communication according to the user's preferences. Based on their tags, users will also be receiving personalized show recommendations. In addition, the website offers a personalized experience, enabling interactions like comments and discussions with fellow users directly under each show or movie. To summarise, our website is a platform that allows customers to rate shows, stay informed about release dates, and immerse themselves in a comprehensive show-tracking experience.

Give different types of users access to certain parts of the app/least privilege principle: Administrators and users will have different types of access. For example, users will be able to comment, rate, subscribe, and discuss shows/movies with other users. Administrators manage user accounts, restrict/unrestricted access, and import data from content distribution centres.

What does each part of the app do: Users can sign up for an account using their email, username, and password. The app will send a verification email to the new user to verify their account. There will be a "Forget My Password" link to reset their password. In this case, the user can type in their email and the app will send an email telling them to reset their password. After logging in, users will be able to see recommended/high-rated shows/movies from different content distribution centres on different tabs. Users have the option to link their content provider (e.g. Amazon Prime, Netflix, Hulu, etc.) to this app, tracking their recommendations for easier convenience. Watchlists can be made to sequence movies the user will be watching. These can be modified to the users' preference and the users can make multiple of them. Subscriptions on shows/movies will be available with in-app/email notifications to remind users when they come out.

Unique feature/selling point:

This application will feature a forum where users can rate, discuss, and critique movies they have watched. Personalized graphs will be created depending on the users' watch history.

Success Criteria:

There are three indicators to evaluate the performance of our project. First, if the users have recommended this application over their current show/movie tracking app by filling out a survey. Second, the ratio of users who refer this application to their friends. Third, the percentage of users who have been using the app.

Big User Stories and User Stories

For Login Page:

- As a new user, I want to create an account so that I can personalise my experience and access the platform's features
- As a registered user, I want to log in with my username/email and password so that I can access my account
- As a user who forgot their password, I want to be able to initiate a password reset so that I can regain access to my account

For Rating Shows:

- As a registered user, I want to share my feedback about the shows by rating them according to a star rating system
- As a user who enjoyed the show, I want the option to leave a written review along with my rating, to provide a more detailed feedback
- As a user, I want to ability to edit or delete my previously submitted ratings and reviews in case I make a mistake or my opinion changes
- As a user, I want to see an average overall rating for each show, calculated based on user ratings, to have a clear idea of the overall popularity and quality of the show

For Analytics Chart:

- As a user who enjoys exploring different genres, I want a history chart to visually represent my liked shows categorised by genres, helping me identify the patterns in my preferences
- As a user who values statistical insights, I want the history chart to include the average rating of liked shows, providing a summary of the overall quality of my preferences

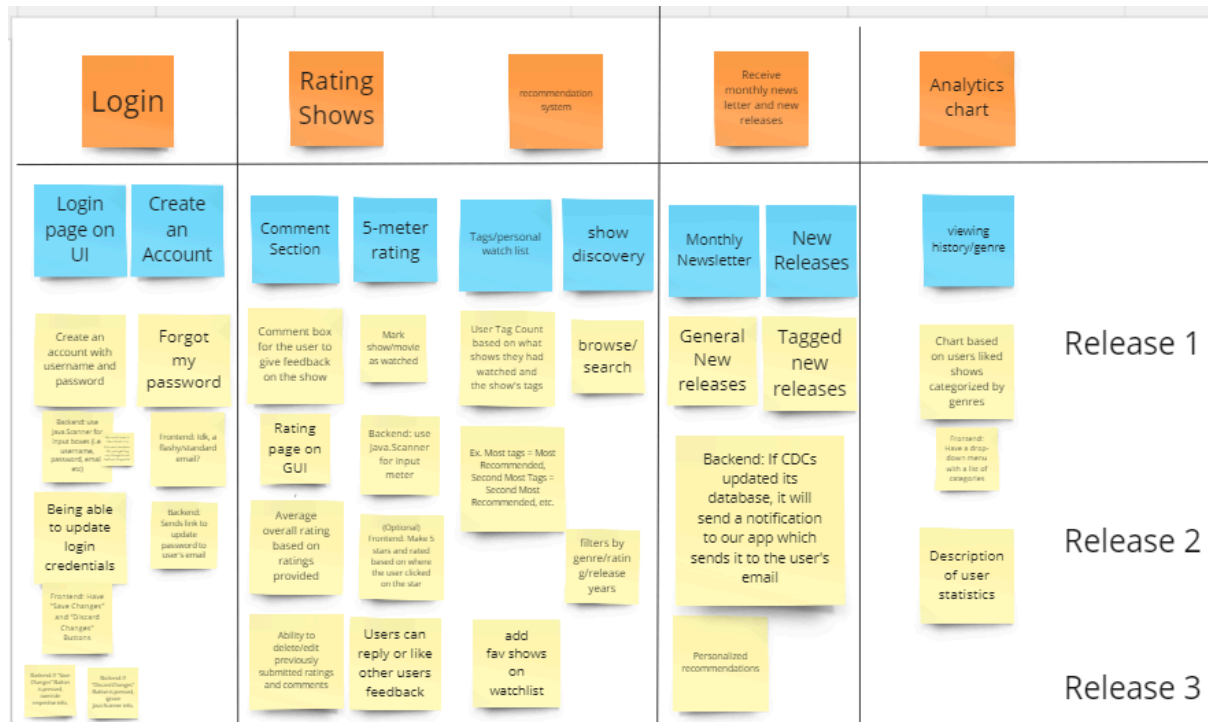
For recommendation system:

- (Big user story) As a user, I want to receive personalised show/movie recommendations based on my viewing history so that I can discover shows that align with my interests.
- (Detailed) As a user, I want to filter recommendations by genres, ratings and release years so that I can find specific types.
- (Detailed) As a user, I want to search for certain shows/movies so that I can add them to my watch list.
- (Detailed) As a user, I want to see the trending shows on Netflix/prime etc platforms so that I keep up with the popular content.

For monthly newsletter:

- (Big user story) As a user, I want to receive a monthly newsletter so that I can stay informed.
- (Detailed) As a user, I want to receive timely notifications of updates for my favourite shows so that I can watch them.

User Story Map



Orange - Big User Story

Blue - Smaller Stories

Yellow - Iteration, what work should be done for each iteration

To-do for iteration 2 - New releases, Favourite, Forum(Comments- deleted, edit them), Newsletter (Recommendations, favourites, "Something you might enjoy"), User email password setting, Filter dashboard (genre, rating)

Step 1 - 3 - databases - Netflix, Amazon, Hulu,

Step 2 - add ratings column into all 3 databases (generalized rating based on which we can provide recommendations)

Mai - Finish Dashboard differentiate into different platforms, Add fav icon

Shreya- Rating page (add an average rating of shows and add the ability to rate the shows), Chart addition more analytics.

Anusha - Newsletters, user email password setting

Elizabeth - filter by genre, date added, and release year (dashboard search button). Look into sorting the data by genre, and title instead of release year

David - Update the favourites page based on the database, watchlist,

Huiling - Recommendations(based on ratings, fav list),

Big user story and user Story

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|---|--|--|--|--|
| <p>Login Page</p> <p>As a new user, I want to create an account so that I can personalize my experience and access the platform's features</p> <p>Priority: High</p> <p>Cost: 2 days</p> | | <p>Login Page</p> <p>As a registered user, I want to log in with my username/email and password so that I can access my account</p> <p>Priority: High</p> <p>Cost: 3 days</p> | | <p>Login Page</p> <p>As a user who forgot their password, I want to be able to initiate a password reset so that I can regain access to my account</p> <p>Priority: High</p> <p>Cost: 4 days</p> |
| | | | | |
| <p>Rating Shows</p> <p>As a registered user, I want to share my feedback about the shows by rating them according to a star rating system</p> <p>Priority: Medium</p> <p>Cost: 2 days</p> | | <p>Rating Shows</p> <p>As a user who enjoyed the show, I want the option to leave a written review along with my rating, to provide a more detailed feedback</p> <p>Priority: Medium</p> <p>Cost: 12 days</p> | | <p>Analytics Chart</p> <p>As a user who values statistical insights, I want the history chart to include the average rating of liked shows, providing a summary of the overall quality of my preferences</p> <p>Priority: Medium</p> <p>Cost: 8 days</p> |
| | | | | |
| <p>Trending Shows</p> <p>As a user, I want to see the trending shows on Netflix/prime etc platforms so that I keep up with the popular content.</p> <p>Priority: Medium</p> <p>Cost: 7 days</p> | | <p>Receive Personalized Recommendations</p> <p>As a user, I want to receive personalized show/movie recommendations based on my viewing history so that I can discover shows that align with my interests.</p> <p>Priority: High</p> <p>Cost: 9 days</p> | | <p>Filter by Genre</p> <p>As a user, I want to filter recommendations by genres, ratings and release years so that I can find specific types.</p> <p>Priority: Medium</p> <p>Cost: 7 days</p> |
| | | | | |
| <p>Show Updates</p> <p>As a user, I want to receive timely notifications of updates for my favourite shows so that I can watch them</p> <p>Priority: High</p> <p>Cost: 4 days</p> | | <p>Show monthly updates</p> <p>As a user, I want to receive a monthly newsletter so that I can stay informed.</p> <p>Priority: Low</p> <p>Cost: 5 days</p> | | |
| | | | | |

For Iteration 1 these are the user stories that are implemented:

- Mai: Implemented The Netflix “Discover Weekly” page where users can search for a certain show from Netflix.
 - (Detailed) As a user, I want to search for certain shows/movies so that I can add them to my watch list.
 - (Detailed) As a user, I want to see the trending shows on Netflix/prime etc platforms so that I keep up with the popular content.
- Elizabeth: Implementing the login page
 - As a registered user, I want to login with my username/email and password so that I can access my account
- Anusha: Implemented the Forgot Password Function
 - As a user who forgot their password, I want to be able to initiate a password reset so that I can regain access to my account
- David: Implemented the Favourites Page
 - As a user, I want to filter recommendations by genres, ratings and release years so that I can find specific types.
- Shreya: Implementing the dashboard with all the different pages
 - As a user, I want to have an overview of all the tabs and the information provided by the application on one page to navigate to and from
- Huiling: Implementing the detailed page for each entry
 - As a user, I want to see the show description, genres, release date, cast, director, and similar shows.

Iteration 2 Changes

Major Changes:

- 3 different databases for TV shows/movies (Netflix already implemented and added Disney and Amazon)
- Filter/sort added to sort feature on the dashboard
- The Favourites page is still in progress
- Email newsletter implementation
- Ratings page implementation
- Recommendations page based on ratings and favourites

For Iteration 2 these are the user stories that are implemented:

Mai - Finish Dashboard differentiate into different platforms, Add fav icon

- Planning Cost: 4 days
- Actual Cost: 4 days

Shreya- Rating page (add an average rating of shows and add the ability to rate the shows), Chart addition more analytics.

- Planning Cost: 4 days
- Actual Cost: 3 day

Anusha - Newsletters, user email password setting

- Planning Cost: 3 day
- Actual Cost: 3 day

Elizabeth - filter by genre, date added, and release year (dashboard search button). Look into sorting the data by genre, and title instead of release year

- Planning Cost: 3 day
- Actual Cost: 3 day

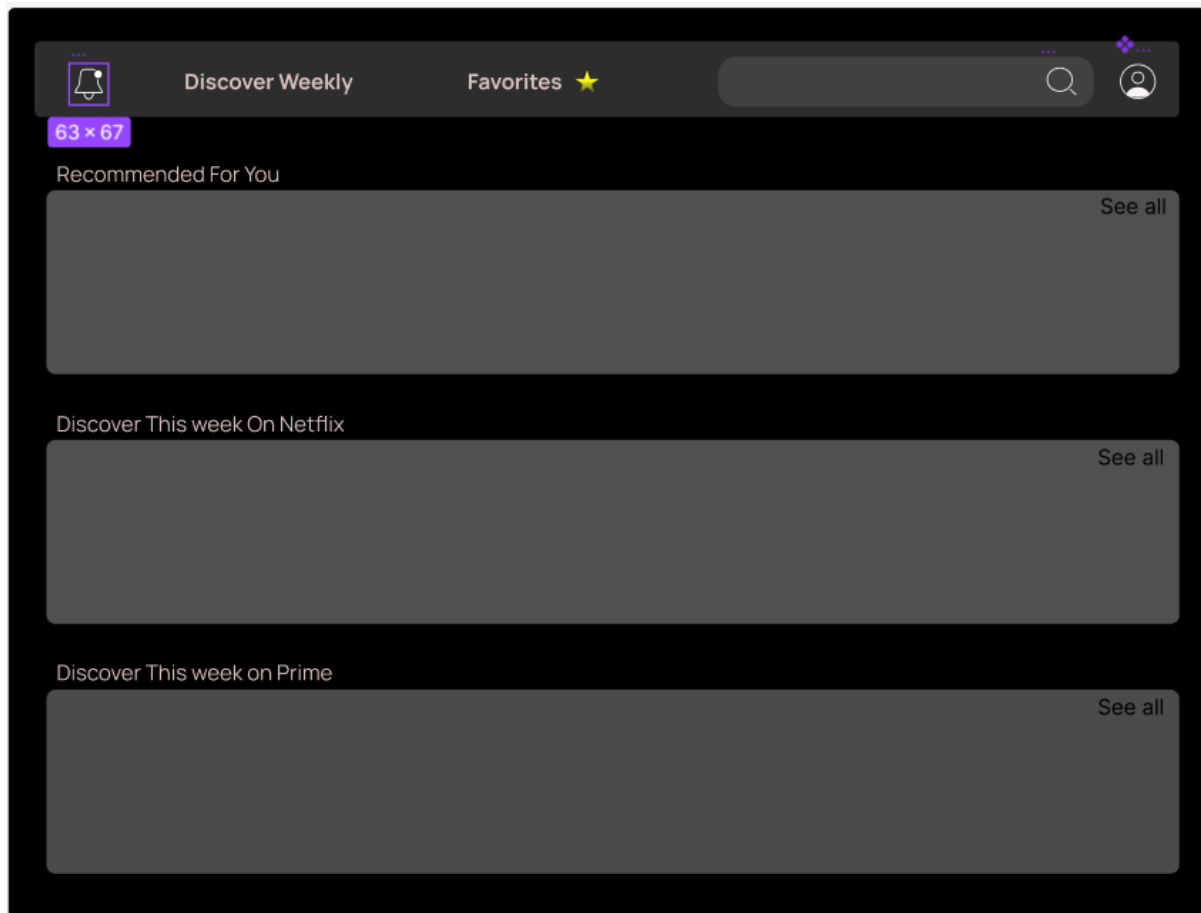
David - Update the favourites page based on the database, watchlist

- Planning Cost: 3 days
- Actual Cost: 3 days

Huiling - Recommendations(based on ratings, fav list)

- Planning Cost: 4 days
- Actual Cost: 4 days

Planning of the design on Figma, this is how we expect our dashboard to look for the final design



What to present?

Mai - Start with a quick introduction where you should introduce the team and the Project.

My name is Mai and I'm joined by Shreya, Elizabeth, Anusha, David, and Huiling. We decided to create a show tracking application with it's own unique features. Including favoriting shows, discovering new series, and reviewing your own analytics.

Shreya - Give the name of the project, describe the intended users, and its major functionality.

Our project is a Shows and Movies tracking application that provides the user with details of their choice of media such as the ratings, genre, description as well as the cast and crew information.

Our intended users are the clients who have little time on their hands or are indecisive or picky about the shows or movies that they want to experience. This website helps them pick one generating a speedy decision. They can analyse the shows based on the recommendations in their account , if there are any favourite media that they would like to rewatch or have a change of preferences from the analytics that have been described by their watch or browsed history.

Elizabeth - A short (1 to 2 minutes) highlight of the customer interview that summarises what the requested stories are.

We met with our customer to discuss the media tracking application with her, and she requested that the following features be included in the design

- A favourites page, to have easier access to certain shows,
- Newsletter feature, getting emails/notifications about upcoming seasons and episodes on her favourite media list, and
- A rating feature, the ability to rate a show on a scale, and engage in interactive discussions with fellow users

Huiling - State your vision and summary of stories.

Inspired by our customer interview, we've developed an app that updates users who have not subscribed to streaming platforms on new seasons or episodes through the newsletter system. Our vision is to provide a shows hub that incorporates shows from major streaming platforms so that it not only keeps users informed about their favourite content in one place but also connects them with like-minded viewers through a rating and commenting system. Last but not least, the analytics system provides users a visual chart that categorises their liked shows by genre, offering them a personalised recap of their viewing experience. In essence, our app simplifies tracking and gives users a better after-viewing experience.

David - Explaining what was/is in ITR1 and ITR2

For iteration 1, we have created three folders under the source folder named: "analytics", "front", and "testCases". The "analytics" folder contains files for analytical graphs. The "front" folder contains files for our individual parts such as the login page, dashboard, etc. The "testCases" folder contains some test cases for our login page. We have an architecture sketch detailing the dependencies between java files and databases. Finally, we have a log for the meetings, discussing what should be done before the next meeting. For part of iteration 2, we made stub databases and filled them with false data just to test our design. We also made GUI that encompasses everyone's parts.

Anusha - Assignment of stories to team members (who did what?)

For Iteration 1:

- Elizabeth: Implementing the login page
 - As a registered user, they are able to login with their username/email and password so that they can access their account
- Anusha: Implemented the Forgot Password Function
 - A user who forgot their password can be able to initiate a password reset so that they can regain access to their account
- Shreya: Implementing the dashboard with all the different pages
 - A user can have an overview of all the tabs and the information provided by the application on one page to navigate to and from
 - A user can also view analytics in the section.
- Mai: Implemented The Netflix "Discover Weekly" page where users can search for a certain show from Netflix.
 - And they can add them to their watch list.
 - A user is able to see the trending shows on platforms like Netflix/prime etc so that they can keep up with popular content.
- David: Implemented the Favourites Page

- A user can filter recommendations by genres, ratings and release years so that they can find specific types.
- Huiling: Implementing the detailed page for each entry
 - A user can see the show description, genres, release date, cast, director, and similar shows.

Demo - Finally, a live demonstration of user stories completed in ITR1, but using DB and having a proper GUI. (spend around 5 minutes for the demo)

For Iteration 2:

- Elizabeth: Filter by
 - User can filter by genre,title, in each database such as netflix, disney, and amazon
- Anusha: Implemented the email
 - A user who forgot their password can be sent a verification code to log back in. Additionally users get sent recommendations in a monthly newsletter.
- Shreya: Implemented analytics and rating
 - A user can also view analytics
 - A user can rate each show which is saved into a database
- Mai: Implemented netflix,amazon,and disney databases
 - A user is able to see the trending shows on platforms like Netflix,prime, and disney so that they can keep up with popular content.
- David: Implemented the Favourites Page
 - The user can view all their favourite shows
- Huiling: Implementing the recommendation page
 - A user can see the recommendation show ordered by rating