

Reel Ratings- Software Requirements Specifications

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Revision History

Name	Date	Changes	Version
AS, JK, AO, CM, GB	09/09/23	Created document, defined purpose and scope	1
AS, JK, GB, AO	09/14/23	Reviewed comments and feedback for incremental enhancements for greater clarity.	2
AS, AO, JK	9/18/2023	Software Interfaces, References, login/passwords	3
JK	9/20/2023	Create a profile, Forget password, Reset Password layout, and input/output added. Revised button text requirements for new profiles being created	4
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AO	10/29/2023	Program functions	25
AS, JK, CM	10/30/2023	Edits and Organizing; Movie-Modal; Add/Create Movie Modal; exit button; Image	26
AS, CM	11/1/2023	Definitions (Modals, Tags); editing; Accessibility	27
JK	11/3/2023	Added profile details and images from usability	28
GB, AO, AS	11/9/2023	Search Functionality; updated definitions	29
AO	11/12/2023	Database, Program function additions	30
AS	11/14/2023	Table of content	31
AS	11/19/2023	editing	32
AS	11/27/2023	Definition (figma)	33
AS	11/28/2023	User Flow	34
JK	11/29/2023	Written Review	35
AO	12/2/2023	Ports, Endpoints	

1. Introduction

1.1 Purpose

The purpose of this document is to disseminate the system requirements for Reel Ratings, which is a strictly web-based application for rating movies and social networking. The main stakeholders of this document include the GUI, Engine, QA, and Usability team, while the product managers/product stakeholders will also lightly review this document. These product managers/product stakeholders are the IBM designers/developers and a State University of New York at Oswego professors helping the aforementioned teams create Reel Ratings.

1.2 Scope

Reel Ratings will be an exclusively native web-based application used solely by users with established accounts in order to provide granular ratings and reviews for films. The site will not only boast a robust, granular rating and review system, but it will also be replete with a fun, arbitrary categorization system. There will be no mobile support for this service.

Reel Ratings will do the following:

1. Communicate the general public's rating for movies utilizing arbitrary categories the Reel Ratings community decides to adopt. The arbitrary rating categories created by users will help them rate specific aspects of the movies being reviewed. This may include arbitrary categorizations such as "movies your great-grandfather would have enjoyed," and "Movies your 3-year-old can drink their juicebox to," while these are not representative of actual categories in use on the site, they provide a worthwhile analog of what users might be able to expect.
2. Store and maintain user profiles that individuals can be associated with and return to that provide them with their own customer-facing data they have contributed to for the application.
3. Will enable users to write more general reviews of the movies as well - in addition to the aforementioned focus on arbitrary rating categories.
4. Render the various ratings and reviews of users sharable in a way that allows users to access the ratings and reviews of other users.
5. Allow users to follow and/or add other users to their network of friends on the site.

Reel Ratings will be built utilizing IBM's Open Liberty software development network. It must make use of a microservices architecture/ JSON Web Tokens (JWTs) will be used for security and authentication.

1.3 Definitions, Acronyms & Abbreviations

- **Administrator** - Users with the highest levels of access to the website. They are responsible for implementing and maintaining security services, such as adding users/administration, building profiles, or managing general site administration.
- **Arbitrary**- Categories created by the users for movies that are then rated on a scale.
- **Granular**- Ratings attached to the movies based on characteristics viewers deemed them to have, such as goofiness.
- **GUI** - A digital interface that allows users to interact with electronic devices through graphical components such as icons, buttons, and menus. The visuals displayed in the user interface convey information relevant to the user, as well as actions that they can take.
- **Modals**- An overlayed pop-up that displays different features to the user - movie ratings, profiles, editing, and other relevant information.
- **QA**- QA refers to quality assurance. Within the context of this document, the acronym is used to refer to a team of the same name. Said team is working collaboratively amongst the other teams to develop Reel-Ratings. The QA team in particular works on ensuring that the website being developed is functional and meets the requirements established here in this literature.
- **Submission** - Any document/file that is uploaded to the system.
- **Tags**- A statement or declaration of a movie.
- **Up Down Vote** - A up/down vote statement or declaration of a movie that is interactable.
- **User** - Any person who utilizes the website.

1.4 References

1.4.1. Outside Sources

- **Bootstrap**- <https://getbootstrap.com/>
- **Docker** - <https://www.docker.com/>

- **Figma** - https://www.figma.com/file/GeaHwOuldfIDlfwcqUaxmk/V1-Prototype?type=design&node_id=0-1&mode=design
- **GitHub** - <https://github.com/PavlAvstin/OZ-CSC-480-HCI-521-Fall-2023->
- **Jakarta** - <https://jakarta.ee/>
- **NGINX** - <https://www.nginx.com/>
- **MongoDB** - <https://www.mongodb.com/>
- **Microprofile**- <https://microprofile.io/>
- **Open Liberty**- <https://openliberty.io/>
- **VS Code**- <https://code.visualstudio.com/>
- **WCAG 2.1**- <https://www.w3.org/TR/WCAG21/#conformance-reqs>

1.4.2. Other Requirement Documents

- **Accessibility Requirements**- <https://tinyurl.com/ye24j6um>

1.5 Overview

Section 2 contains outlines and descriptions of the overall requirements of Reel Rating as a whole. This section houses detailed descriptions of the various functions that will be called, and everything regular users and administrators should have the ability to do on the website, with the software requirements being detailed as well. Any constraints are also described, and these will relate to components such as the ratings themselves, rating categories, and sharing reviews with others.

Section 3 expands on the requirements described in Section 2 with more specificity to aid the developers with implementation. In this section, developers can find detailed step-by-step breakdowns of the inputs from the users and the resulting outputs from the system. A contextual description of each function can also be found in this section. Depending on the users' specific inputs, there will be a detailed description of each of the functions called by the system as a result. There will also be a detailed description of each of the specific software attributes and requirements, including portability, availability, reliability, and security.

1.6. Copyright

Copyright refers to a form of protection provided by the judiciary adherence of the United States. The jurisdiction of said laws covers the “original works of authorship”, in the following categories:

Literary, dramatical, musical, through architectural applications, cartographic, choreographic, pantomimic (storytelling.) graphic, sculptural artistic expression, pictorial, and audiovisual creations.

Unless otherwise permission is granted/consented by the original copyright holder of potential media used, free use commons, creative commons, and referenced (section 106, title 17, U.S. Code); work shall abide by original created content. Thus, original works consist of content drawn, and code created by the teams including structural contaminants within the source code(s). To the application of mapping, and the overall user-generated experience, and layout. Work must be appropriately cited. Copyright protection does not apply to particular ideas, protocols, slogans, catchphrases, slogans, familiar iconography, typeface, or typographic layouts. Movie distribution and television content fall under audiovisual copyright.

Creative Commons: This is a global non-profit, specializing in the distribution of sharing, enabling, and reuse of creativity, through legally sharable content.

1.7 Privacy

Privacy is used to make sure the Copyright and Information (The Privacy Act of 1974) can be protected. Privacy covers one person’s information shared and stored online, the Rating Reels app will focus more on the privacy of data being shared from User to User within the application. (expanded on in section 2.9 Privacy)

1.8. Accessibility

Accessibility is focused on people with disabilities; who need help in their daily life activities and functions, on a per-circumstance basis. Who otherwise might not be able to potentially have the same quality of life, as individuals who do not have a disability. Products, services and environments are built and modified so everyone can be accommodated. (See *Accessibility Requirements* in 1.4.2. for more information)

2. Overall Description

2.1. User interface

2.1.1. All users

The Target user audience is those ranging from thirteen years of age, up. Specifically, moviegoers looking for a fun, engaging experience via a website application.

2.1.1.1. User

Users are those to whom, are looking for a rating application system; to quickly identify potential movie options. Based on a proven data base, verifiable review system, track record, and users with similar interests. Who might potentially (and otherwise.) struggle to find consumable content, of which the user may find enjoyable. Whether it be searching, reviewing, and enjoying content alone, or with friends and family.

2.1.1.2. Admin

Admins are responsible for the development, monitorization, maintenance, and safety of the site optimizations. While also protecting the clients, users, and members of Reel Ratings. Users look to the administrator's/administrator, to have a proper understanding of how the functionality of the website is to run; as smoothly as possible. While the user is utilizing the provided content, to create a positive experience of the environs. To achieve their desired end result; watch movies.

2.1.2. Software Interfaces

- **Bootstrap**- A free and open-source front-end development framework for the creation of web applications.
- **Docker** - packaging the application and all its dependencies into a standardized and portable unit.
- **Figma**- A low fi or high fi site to make websites
- **Jakarta** - Application server
- **Open liberty** - an open framework for Java
- **NGINX**- used as a reverse proxy for maintaining sessions,
- **MongoDB** - Database
- **Microprofile**- Keeps all the API's together
- **Github** - version control

- **VS Code**- Source-code editor

2.1.2.1. Program Function

The Program Functions are the Methods of Java formulated by the Engine team. Each one has a function and describes how everything works together. Each of these was tested by QA. Tags, Ratings, and Reviews can be deleted by the person who created the item as well as an admin. This information is not stored anywhere in the item, but instead is verified during the edit or delete.

Movie Endpoints:		
/movie/create	which is the endpoint that allowed us to enter a movie	createMovie()
/movie/getByTitle/{title} :	returned the movies unique id	getMovieId()
/review/create{movieID} :	creates a review	createReview()
/reviews/getByMovieId{movieID} ;	gets all of the reviews for a movie,	
/movie/getMovieImage/{movieID} :	returns an image for the movie	getMovieImageID()
/reviews/getByUser/{username}:	returns all the reviews for a user,	getReviewsByUser()
/movie/getMoviesWithMostReviews:	returns the movies with most reviews and will show up to 12	getMoviesWithMostReviews()
/movie/getRecentReleaseMovies:	shows up to 12 recent release movies.	getRecentReleaseMovies()
Actor Endpoints:		
/actor/create/{movieID}:	used a movie id to add an actor	createActor()
/actor/getByName/{name}:	will return the unique actor id	getActorName()
/movie/getByActor/{actorID}:	this endpoint returns all results for movies actors were in	getActorId()

2.1.2.2. Ports

The Java construct ports utilized for Reel-Ratings are as follows:

Port	Construct	Info.
30400	guiPort = 30400	Displays service port 30400...
30500	authPort = 30500	Auth service 30500 generates endpoints that allow users to
30501	movieDataPort = 30501	Movie Service 30501 facilitates the creating, adding, and returning of reviewed films on the site. Includes information like titles, tags, categories.
30502	reviewsPort = 30502	Actor Data Service 30502 facilitates the creation, addition, and return of actor data.
30503	ratingsPort = 30503	Rating Microservice 30503 facilitates the creation, submission, and returning of ratings and rating information.
30504	actorPort = 30504	Review Microservice 30504 facilitates the creation, submission, and returning of reviews.

*For microservice interactions, the frontend and auth service interact with every microservice. While every microservice interacts with just the front end and the auth service.

2.1.3. Database

Reel-Ratings utilizes MongoDB and has established two databases - also using MongoDB, along with JWTs (where applicable) to facilitate its operation. The databases in question are used to store data for user credentials as well as movie data. The user credential-focused database stores the information of all user profiles - including emails, usernames, and passwords and makes use of JSON WebTokens (JWTs). The movie data-focused database is comprised of movie titles, directors, primary cast/actors, release date, runtime, writers, plot summaries, flag names, and rating category names.

Database Credentials:

MONGO_CRED_DATABASE_NAME=UserCredentials

MONGO_CRED_PORT=30300

MONGO_MOVIE_DATABASE_NAME=MovieData

2.1.4 Store information

Virtual Studio (VS) code is being utilized to facilitate an integrated development environment (IDE). GitHub also serves as an incredibly useful resource in terms of the cataloging and collaborating being done by numerous members of the team. There is no additional software currently being used to facilitate the program IDE. There are, however, multiple languages being used for this site. The languages being utilized for this site and the purposes thereof are HTML + CSS, Javascript and the Bootstrap library.

2.1.5. Movie-Modal

The movie-modal shall contain the following.

- Title of the movie
- Image of the movie
- Tags
- Ratings Section
- General Section
 - Summary
 - Director
 - Writer
 - Release Date
 - Runtime
 - Actors
- Followed Reviews Section
- Rate “title of movie” button
- Share button
- Share discord button
- Exit button

The top left corner shall display the title of the movie along with the image directly below it and tags directly below the image. The rating section shall be placed below the tags, and it is divided by a decorative line next to the word “Ratings”. The ratings section shall contain the category bars, which will be able to hold two parallel to each other. The category bar shall be

accompanied by the name of the rating above to the left of the bar and the overall rating on the top right of the bar. The ratings sections shall be scrollable.

On the left side of the modal shall be the general section, which shall contain the title of the section “general” and across from that title is a decorative line. General section shall be scrollable. The summary shall be directly placed below this heading, followed by four underlined words. These words are displayed left to right in the following order: director, writer, release date, and runtime, with the associated text placed directly below each. Below this shall be the actor's section, which shall not be underlined, and the associated actors listed below with a maximum of three names per line. Followed reviews is the last section in this modal, which is placed on the bottom right and is scrollable. This section shall be titled “Followed Reviews” with a decorative line next to this text. Within this section shall be profile pictures along with the associated ID's and ratings associated with the movie selected.

On the top left of this movie modal, displayed in the following order, left to right, is the rate “title of the movie” button, share button, share discord button, and exit button.

2.1.5.1. Add/Create Movie Modal

The add/create movie modal shall appear when the “add movie button” has been pressed. The add/create movie modal shall contain the following pieces of information that users will be able to add to the website.

- Image
- Movie Title
- Director
- Writer
- Release Date
- Runtime
- Actors
- Summary

“Image” text shall be placed above the add image button on the left side of the modal. On the right side of the modal shall be the title of the section called “details” with a decorative line next

to it. This details section shall contain the movie title, director, writer, release date, runtime, and actors in descending order written above. Movie title, release date, and runtime shall be editable text boxes, but director, writer, and actor shall be added via the “add director, writer, or actor” button. The editable text boxes along with the “add” buttons shall be placed directly below the associated text (movie title, release date, runtime, director, writer, and actor) above. The summary shall be placed below both the image section and the details section, which will also be an editable text field. On the bottom right of the add/create movie modal shall be a submit button.

2.1.6. Exit Button

While the exit button shall be placed all across this webpage, it shares a universal goal of directing the user out of the modal that is currently present. The exit button is a purple square with a white “X”.

2.1.7. Image

The image shall be the associated movie poster with the movie on the movie modal page. This image shall be the same image as the image found in the movie card associated with this movie modal.

2.2. Submissions

- Users will be able to add an arbitrary rating category on the UI of the site, on the page for any movie
- Users will be able to add movies manually to the site if the movie is not already included on Reel Ratings
- If information is not already in the database for a particular film (i.e. cast, crew), users will be able to add additional information.
- Users will be able to delete reviews previously left by themselves, though if they have created an arbitrary rating and someone else has also used the same metric, only the user post itself will be deleted

2.3. Log in

The login page shall present the logo for Reel Ratings above the credential fields. The application shall accept [Username and/or Email Address] for the first text field, and the second text field shall accept the password credentials. Under log-in credentials, there shall be a forgot password section for users to recover their accounts. Finally, two buttons shall be below the Forgot Password hyperlink, which shall be center justified with the submit button on the right and the new account profile button on the left.

2.3.1 User Name/ Password

Usernames and passwords will adhere to specific requirements - as listed below in this document, in their entirety. Usernames for this site will be no longer than fifteen characters and unique - there may not be more than one singular user using the same username. Usernames may not be comprised of profane or explicit language. In addition, there will be no distinction between uppercase and lowercase letters when signing in to a user's profile. Passwords, on the other hand, are to be a specific minimum length (eight characters). Passwords must also make use of a specific character and number while renaming case-sensitive.

2.3.1.1. Forgot Password

The Forgot Password page shall present the logo for Reel Ratings above the username/email credential text field. Under the only credential entry text field shall be two buttons center justified with the Reset Password button on the right and the Back button on the left. The back button will redirect the system to the login page, and the Reset Password button will trigger a pop-up message to confirm the email has been sent to the associated email address, which will not timeout after a period of time.

2.3.1.2. Reset Password

The reset password page shall have the logo of Reel Ratings above the two credential text fields. The first credential text field will be labeled as Enter New Password, and the second credential text field located on the first credential text field will be labeled as Reenter New Password. Under the second credential text field shall be two buttons center justified with the Submit New Password button on the right and the Cancel button on the left. The Cancel button will redirect the system to the login page, and the Submit New Password button will trigger a pop-up message

to confirm a successful password change, which shall timeout after 4 seconds and redirect the user to the login page.

2.3.2. Create an Account

Users must first create an account to access and create their ratings and reviews for movies of their choice. When creating an account users will enter their email addresses. Following this, their username will automatically become whatever the first part of their email address was. During the account creation process, users will not be able to manually upload profile photos or icons, instead they will be automatically assigned profile images.

2.4. Homepage

To access the Reel Ratings homepage, a user must first have an account and sign in to said account. Movies are to be prioritized - especially regarding the site's homepage. The primary interaction point of the homepage, however, will be the search function. Users can search for movies, casts, and categories using the search function. The homepage is also to include new movie releases as well as top rated subsections as suggestions for users to peruse on the homepage. This is particularly useful for users who are unsure what they would like to watch and have decided to use Reel Ratings as a selection tool. From the homepage, users will also be able to access their profile, by clicking on an interactive icon located to the right of the search bar.

2.4.1. Banner

The banner shall contain the following.

- Hamburger Menu
- Reel Rating Logo
- Text showing “Reel Rating”
- Search Bar
- Search Button
- Search Icon
- Profile Icon

The hamburger menu is the first element on the top left. The Reel Rating's logo will be placed at the to the right of the hamburger menu with the text showing “Reel Rating's” directly to the right of our Logo. The next element will be the search bar which has decent amount of space between

it and the “Reel Rating’s” text to avoid visual tension. Within the search bar box shall be the search button located on the right side of the search bar. The search icon shall be placed inside of this button. The profile icon shall be placed on the top right corner of the banner.

2.4.2. Search Bar

The search bar shall be an editable textbox that has the following text faded inside of the text box: “Type to search”. The editable textbox shall display blinking “|” when clicked and updated with whatever text the user enters into their keyboard into the system. This is to discern users as to where the information they are looking for, will be entered.

2.4.2.1. Search Functionality

The search feature should allow users to find all movies from every category. Users should also be able to search for movies specifically by title, cast members, directors, release date, and users. Users should also be able to search by tag names and rating names. An example of a specific search would be “goofy action ensemble cast”, and the results should then be all movies that fit the criteria of goofy and ensemble cast. Searching by rating should then allow the user to order the results by highest rating to lowest, or lowest rating to highest.

2.4.3. Hamburger Menu

The aforementioned hamburger menu will be that of a collapsible nature, whereupon being interacted with by a user, will expand - allowing them to search for and select various categories to filter content with. Users will be able to select one or more categories such as *comedy, drama, horror, etc.*

2.4.3.1 Categories Bar

Search Bar categories will include the categories of rating categories and frequently used which will be an element of the hamburger menu. The rating will be a drop-down. Rating categories will have different genres- comedy, drama, horror, sci-fi, fantasy, action, romance. Adventure, war, biography, superhero. Frequently used categories will be- based off of the genre catgories that are given above and off the ratings that people voted in.

2.4.4. Section Headers

There shall be two sections below the banner named Recent Reviews and most viewed. The section starts with text showing “Recent Reviews” and a line directly adjacent to the text that spans across the webpage. Below the line which acts as a divider shall be the movies themselves. The second section appearing as “Most Viewed” shall follow the same guidelines as recent reviews.

2.4.5. Media Cards

The media shall be placed directly under the section headers in the form of cards. The top of the card has a landscape poster showing the movie. Below the poster shall be the name of the movie left justified on the card. Below the title shall be the overall rating scale given to the movie. Below the rating scale shall be the description of the movie. Finally, the card shall have the text that reads “More” after the description.

2.4.5.1 Category Bars

Users will specify what category they will be assessing a film based on - whether said category is pre-existent, or if the user has created their own rating category. Category bars will allow for users to provide a rating ranging from 1.0-10.0.

The current hex code values for the colors included in category bar gradients are as follows:

- 1.0 - RGB(55, 75, 172) => #374BAC
- 2.0 - RGB(49, 95, 153) => #315F99
- 3.0 - RGB(43, 115, 134) => #2B7386
- 4.0 - RGB(37, 135, 115) => #258773
- 5.0 - RGB(31, 155, 96) => #1F9B60
- 6.0 - RGB(24, 175, 76) => #18AF4C
- 7.0 - RGB(18, 195, 57) => #12C339
- 8.0 - RGB(12, 215, 38) => #0CD726
- 9.0 - RGB(6, 235, 19) => #06EB13
- 10.0 - RGB(0, 255, 0) => #00FF00

2.5. Ratings

Users will be able to submit arbitrary ratings for movies. Meaning that, the users will be able to create unique categories for movies that are then rated on a scale of their preference, may it be yes/no or 1-5. The users will have the ability to keep the rating categories they create private from other users. Users will also be able to create granular ratings, meaning that they will be able to attach ratings to the movies based on characteristics viewers deemed them to have, such as goofiness.

2.5.1. Types of ratings

Users will be able to submit both overall ratings and free-form text reviews, generate granular ratings, create arbitrary rating categories, and even to specify a different rating system for use in their rating/overall review.

2.5.1.1. Arbitrary

Users will be able to create unique categories for movies. For example, as an arbitrary rating, a user must be able to create a category such as “historical significance”, and then rate the movie in that category with a scale of their choosing.

2.5.1.2. Granular

Users will be able to specify as to why they like a movie. For example, a user should be able to specify that they enjoy a particular movie because of its goofiness and in doing so they may assign it a goofiness rating.

2.5.1.3. Written Reviews

Before a user can submit a written review, the user needs to be signed into the webpage for them to submit a review. A written review shall be able to contain 2,000 characters. A written review can handle any key input from a keyboard.

2.5.2. Rating Modal

When the Rating Modal appears, there shall be the name of the movie on the top right, a green “Rate [title of the media] on the right, along with an “X” button on the top right corner. Below the title of the media shall be a landscape image, which is 16:9. Below the image shall be a

scrollable section that is titled “Ratings” with a decorative line to the right of it. Below ratings shall be two columns of our rating scale elements, with the name of the rating scale being the category name. Below the green “Rate [title of the media] button shall be a section named “General” with a decorative line to the right of it with two subsections below named “Actors” and “Tags”. Another section is below the “General” section, and that is the “Followed Reviews” section with a decorative line next to it. “Followed Reviews” contains tiles with profile images on the left and the name of the user to the right, along with the ratings that have been given.

2.5.4. Followed Reviews

Users will be able to see the reviews of other users that they follow on the site. These reviews as mentioned previously (see Section 2.5.3), will be denoted, and contained within a specific section located within the UI of the site.

2.5.5. Editing reviews

Users will be able to delete ratings of their own posting, though they may not be able to edit their review after its submission.

2.6. Sharing

The system must be able to share ratings by generating URL's for individuals to be able to copy and paste into search engines. The user can copy the URL in two different ways; one of these ways is to right-click on the name of the individual who left the review, which brings up a pop-up that will have text reading copy, and the other will be a button. The button will have the word share under the share icon. Once a click is registered on the share icon, a pop-up will appear, which will contain an X button that will get rid of the pop-up, an uneditable text field that shall contain the URL, and a button next to that text field that has the text “copy”.

2.6.1. Links

When sharing a review with another individual, a link will be provided to the recipient. This link shall take the recipient directly to the review embedded in the website.

2.7. Profiles

The profile section must display the user's name, the amount of previously submitted reviews, . Users will have the ability to view reviews submitted specifically by other users that they follow, and they will also be recommended other users to follow.

The profile card shall be centered and justified below the banner. From left to right, the following will be displayed on the profile card: profile image, “Username,” “Movies Reviewed,” “Following,” and “Followers.” Under the underlined elements shall be a number displayed for each respective category. When an external profile (a profile that isn't associated with the user that is currently signed into the webpage) is being viewed, a “follow” button will be within the profile card. If the profile has already been followed, then the “follow” button would instead be an “unfollow” button in the same location that the follow button previously was.

2.7.1. Admin

The administrator's profile must display, along with the name, review history, and following.

2.7.2. User

User Profiles should include user names, previous reviews, and following. This section should also include an option to follow the page. All of the users' reviews will be visible to their followers.

2.7.3. Movie Modal

See the above section [get the action] for it.

2.7.4. Edit profile

Users must have the ability to make edits to their profile page, with the ability to edit/change their email address and name that is attached to their account.

2.8. Notifications

When a review has been submitted for a film, a notification will pop up within the UI of a user following the reviewing party. When the user interacts with the webpage, this notification shall appear. There will be no external notification functionality for Reel Ratings. Notifications are to

be internal only, and are to be sent and delivered to users with the site. Notifications will be utilized to update users about the activities of other users that they are following.

The notification shall appear on the bottom left corner of the webpage. The content of the notification shall display the name of the user along with the associated trigger that caused the notification to appear. An “X” button shall be placed on the top left corner of the notification box. Once the notification button has been displayed for seven seconds, the notification shall disappear.

2.8.1. Likes

Users will be able to click a button, to “like” their content. Whether it be the consumable media; movies/tv shows. To favorable articles, and other users replies.

2.8.2. Follow

When a user follows another user on the website, a notification is triggered for all users on the website.

2.8.3. Shared

When a user shares a rating with another user, a notification is triggered for all users on the website.

2.8.4. New rating

When a user creates a new rating, a notification is triggered for all users on the website.

2.9. Privacy

Within this application, there shall be three settings that the user is able to select when deciding to post a written review, a new tag, or a new rating. These three settings shall be public, followers, and private.

The privacy settings button shall display the text associated with the privacy setting selected. The privacy settings will be displayed in a drop-down menu, and that menu shall display in the

following bulleted order. The privacy settings button shall be where the drop-down menu appears, in which case it will result in the menu being under the button itself.

- Public
- Followers Only
- Following

2.9.1. public

When a rating is set to public, anyone on the website shall be able to see this review.

2.9.2. private

When a rating is set to private, nobody on the website other than the poster themselves can see the review

2.9.3. Followers only

When a rating is set to followers only, only the followers of the poster shall be able to see the review.

2.9.4. Editing Privacy

Users shall not be able to edit the privacy of one's review after posting.

3. Specific Requirements

3.1. User interface

3.1.1. User Name

Usernames allowed on the site will meet the following requirements:

- Be 15 characters or less
- May not include profane, or otherwise explicit language (to be determined by future deliberation)
- There will be no distinction between uppercase and lowercase letters in terms of signing in, or searching for other users (feature to be determined)

3.1.2. Password

Passwords allowed for use on the site will meet the following requirements:

- Be no less than 8 characters
- Must make use of at least one number and one special character
(i.e. !"#\$%&'()*+,-./;:<=>?@[\\]^_`{|}~")
- Will be case-sensitive

3.2. Log in

3.2.1- User Sign in

Input: User gets to log in page (See figure 3.2.2.A)

Output: login page

Input: User types in credentials

Output: Credentials are in two boxes for password and username.

Input: The user presses submit button

Output: If credentials are invalid user receives an error message.

Output: If credentials are valid user is redirected to the homepage.

3.2.1.1.-Create User Profile

Input: User gets to log in page (See figure 3.2.2.A)

Output: Login page

Input: User presses the new account button

Output: Create new profile page appears

Input: User puts in credentials (user name, email address, password, reenter password) and presses submit

Output: If credentials are invalid user receives an error message.

Output: If credentials are valid user is redirected to the homepage.

3.2.2 Forgot Password

Input: User presses the Forgot Password hyperlink.

Output: Forgot Password page appears.

Input: User puts in the associated username/email address for their account.

Input: User presses the Reset Password button or presses the Back button.

Output: If the Back button is pressed, the login page appears.

Output: If the Reset Password button is pressed, the password reset confirmation pop-up appears, and an email gets sent to the user's associated email address.

Input: User presses forgot password hyperlink in their email address.

Output: User is redirected to the reset password page.

3.2.3.-Reset Password

Input: User presses the Forgot Password hyperlink.

Output: Forgot Password page appears.

Input: User enters a new password into the first text field.

Input: User reenters their new password into the second text field.

Input: User presses the Submit New Password button or presses the Cancel button.

Output: If the Cancel button is pressed, the login page appears.

Output: If the Submit New Password button is pressed, a confirmation pop-up appears and timeout after 4 seconds to show the login page.

3.3. Homepage

3.3.1-Reel Ratings Logo

Input: Left-clicking Reel Ratings logo.

Output: Redirect the website to the homepage.

3.3.2- Searchbox

Input: Left-clicking searchbox.

Output: Within the searchbox a flashing “|” appears waiting for text to be entered.

Input: Keyboard press from applicable text entry keys.

Output: Associated key pressed displays the letter/number/character on the key

Input: Enter key is pressed

Output: Website searches and navigates to the applicable search based on the text entry

3.3.3- Profile Icon

Input: Left-clicking profile

Output: Profile menu appears

Input: Left-clicking profile icon or “profile” text

Output: Redirect to the profile page

Input: Left-clicking settings icon or “settings” text

Output: Redirect to settings page

Input: Left-clicking “logout” text

Output: Log the user out of the application

3.3.4.- Search Bar

Input: Left-clicking search bar

Output: Flashing “|” appears within the search bar

Input: Standard keystrokes applicable for text fields entered

Output: Associated letters, characters and numbers appear in the text field based on the order imputed into the keyboard

3.3.4.- Search Button

Input: Left-clicking search button

Output: Search the system for applicable results and redirect the user to result page

3.3.5.- Media Cards

Input: Left-clicking anywhere on the media card

Output: Redirect the webpage to the media page for associated media

3.3.6.- Add Movie Button

Input: Left-clicking “Add Movie Button”

Output: Redirect the webpage to the “Add Movie Modal”

3.3.7.- Hamburger Menu

Input: Left-clicking “Hamburger Menu” icon

Output: “Hamburger menu” appears

Input: Left-clicking search field

Output: Static “|” appear with text field becomes editable

Input: Standard keystrokes applicable for text fields entered

Output: Associated letters, characters and numbers appear in the text field based on the order imputed into the keyboard

Input: Left-clicking small radio button

Output: Associated small radio button filter is applied and radio button is turned to active

Input: Left-clicking active radio button

Output: Active radio button becomes deactivated

Input: Left-clicking deactivated radio button

Output: Deactivated radio button becomes active

Input: Left-clicking small triangle/arrow downward facing

Output: Filter section collapses in on itself and all filters disappear

Input: Left-clicking small triangle/arrow upward facing

Output: Filter section expands downward showing all filters in that section.

3.4. Ratings Modal

3.4.1- General Rating Modal Requirements

Input: Left-clicking “back” button

Output: Redirect the website back to the details modal

Input: Left-clicking the “X” button

Output: Direct the user back to the homepage

3.4.2 - Thumbs Up/Thumbs Down

Input: Left-clicking deactivated “Thumbs-up” button
Output: Deactivated “Thumbs-up” button becomes active
Input: Left-clicking activated “Thumbs-down” button
Output: Activated “Thumbs-down” becomes deactivated

3.4.3 - Written Review

Input: Left-clicking search field
Output: Static “|” appear with text field becomes editable
Input: Standard keystrokes applicable for text fields entered
Output: Associated letters, characters and numbers appear in the text field based on the order imputed into the keyboard
Input: Left-clicking “submit review”
Output: Written review is created.

3.5.4 - New Tag

Input: Left-clicking search field
Output: Static “|” appear with text field becomes editable
Input: Standard keystrokes applicable for text fields entered
Output: Associated letters, characters and numbers appear in the text field based on the order imputed into the keyboard
Input: Left-clicking “clear” button
Output: Text field is deleted
Input: Left-clicking “create tag”
Output: Tag is created and appears in the left pane of the rating modal

3.4.5 - New Rating

Input: Left-clicking search field
Output: Static “|” appear with text field becomes editable
Input: Standard keystrokes applicable for text fields entered
Output: Associated letters, characters and numbers appear in the text field based on the order imputed into the keyboard

Input: Left-clicking “clear” button
Output: Text field is deleted

Input: Left-clicking “create Rating”
Output: Tag is created and appears in the left pane of the rating modal

Input: Left-clicking anywhere rating on the category rating bar
Output: Associated value of where the user clicks appear on the bar along with the number it is associated with

3.4.5 - Privacy Setting Drop Down

Input: Left-clicking the “drop down arrow” button
Output: Privacy settings drop down menu appears

Input: Left-clicking public, followers only or private
Output: Whatever option is selected is the new setting associated with the rating that is being placed, as well as the text updating next to the “drop down arrow” associated with the privacy setting selected.

3.5. Details Modal

3.5.1- “Rate Button”

Input: Left-clicking on the “rate” button
Output: Direct the website to the rating modal

3.5.2 - Scrollable sections

Input: User uses scroll wheel
Output: Section scrolls

3.5.3. Profile Icon

Input: Left-clicking a profile icon
Output: Direct the user to the associated profile

3.5.4. Left-clicking either Director, Writer, or Actor

Input: Left-clicking director, writer, or actor
Output: Direct the webpage to the associated director/writer/actor

3.5.5. Left-clicking either Rating or Tag

Input: Left-clicking rating or tag

Output: Direct user to a dedicated rating or tag page for the associated left-click

3.5.6- Sharing Link Through Right Click

Input: Right-clicking the title of the review.

Output: Standard Windows/macOS pop-up displaying the option to copy link.

Input: Left-clicking copy link button

Output: The link is copied to the clipboard.

Input: Link pasted into user's preferred search engine

Output: The website navigates to the exact link that was copied to the clipboard

3.5.7- Sharing Link Through Right Click

Input: Right-clicking the title of the review.

Output: Standard Windows/macOS pop-up displaying the option to copy link.

Input: Left-clicking copy link button

Output: The link is copied to the clipboard.

Input: Link pasted into user's preferred search engine

Output: The website navigates to the exact link that was copied to the clipboard

3.5.8- Sharing Link Through Button

Input: Left-clicking the share link button.

Output: A pop-up showing the link to the review highlighted appears along with a copy button and "X" button on the top right of the pop-up box.

Input: Left-clicking on the "X" button.

Output: Pop-up disappears.

Input: Left-clicking copy button.

Output: Text appears above the text field containing the URL that says "URL Copied to Clipboard".

3.5.9- Sharing Discord

Input: [Insert Text]

Output: [Insert Text]

3.6 Profiles

3.6.1. Accessing other people's Profiles

Input: Left-clicking on profile images or names associated with profiles

Output: Redirect the webpage to the associated profile that has been left-clicked

3.6.2. Following Profiles

Input: Left-clicking “follow” button

Output: The current user logged into the system and associated with left-clicking the button now becomes a follower of the user that is currently displayed on the page that has the “follow” button

3.6.3. Unfollowing Profiles

Input: Left-clicking “unfollow” button

Output: The current user logged into the system and associated with the left-clicking of the button now becomes unfollowed to the user that is currently displayed on the page that has the “unfollowed” button

3.7 Account Settings

3.7.1. Edit Account

Input: Left-clicking on the edit button

Output: Static “|” appears within the text field and the email address text field becomes editable and the edit button switches to the save button.

Input: Left-clicking on the editable email text field along with normal keyboard inputs

Output: Associated keyboard strokes appear in the text field

Input: Left-clicking the save button

Output: Directs the user to account settings page but if the email address has been updated, the account settings modal should reflect that.

3.8 Add Create Movie

3.8.1. Add Create Movie Modal

Input: Left-clicking on any of the four editable text fields

Output: Static “|” appears within the text field and the text field becomes editable.

Input: Inputting normal keyboard inputs

Output: Associated keyboard strokes appear in the text field

Input: Left-clicking either the “director button”, “writer button”, or “actor button”

Output: Direct the page to the Director/Actor/Writer Modal.

Input: Left-clicking add image button

Output: Popup appears with prepopulated images for the user to select from

Input: Left-clicking the “submit button”

Output: The movie that was created becomes published

Input: Left-clicking “X” button

Output: Redirect the page to the homescreen

3.8.2. Director/Actor/Writer Modal

Input: Left-clicking on any of the back button

Output: Redirect the user “Add Movie Modal”

Input: Left-clicking “X” button

Output: Redirect the page to the homescreen

Input: Left clicking any of the four editable boxes

Output: Static “|” appears within the text field and the text field becomes editable.

Input: Inputting normal keyboard inputs

Output: Associated keyboard strokes appear in the text field

Input: Left-clicking add image button

Output: Popup appears with prepopulated images for the user to select from

Input: Left-clicking submit button

Output: Actor/Director/Writer gets added to the movie

3.8.3. Also In Button

Input: Left-clicking “Also In button”

Output: Search text field appears

Input: Associated keystrokes to a movie name

Output: Movies that are already populated into the site appear

3.9 Notification

3.7.1 Closing out a notification

Input: Left-clicking on the “X” button

Output: The notification disappears

3.7.2 Clicking on the notification

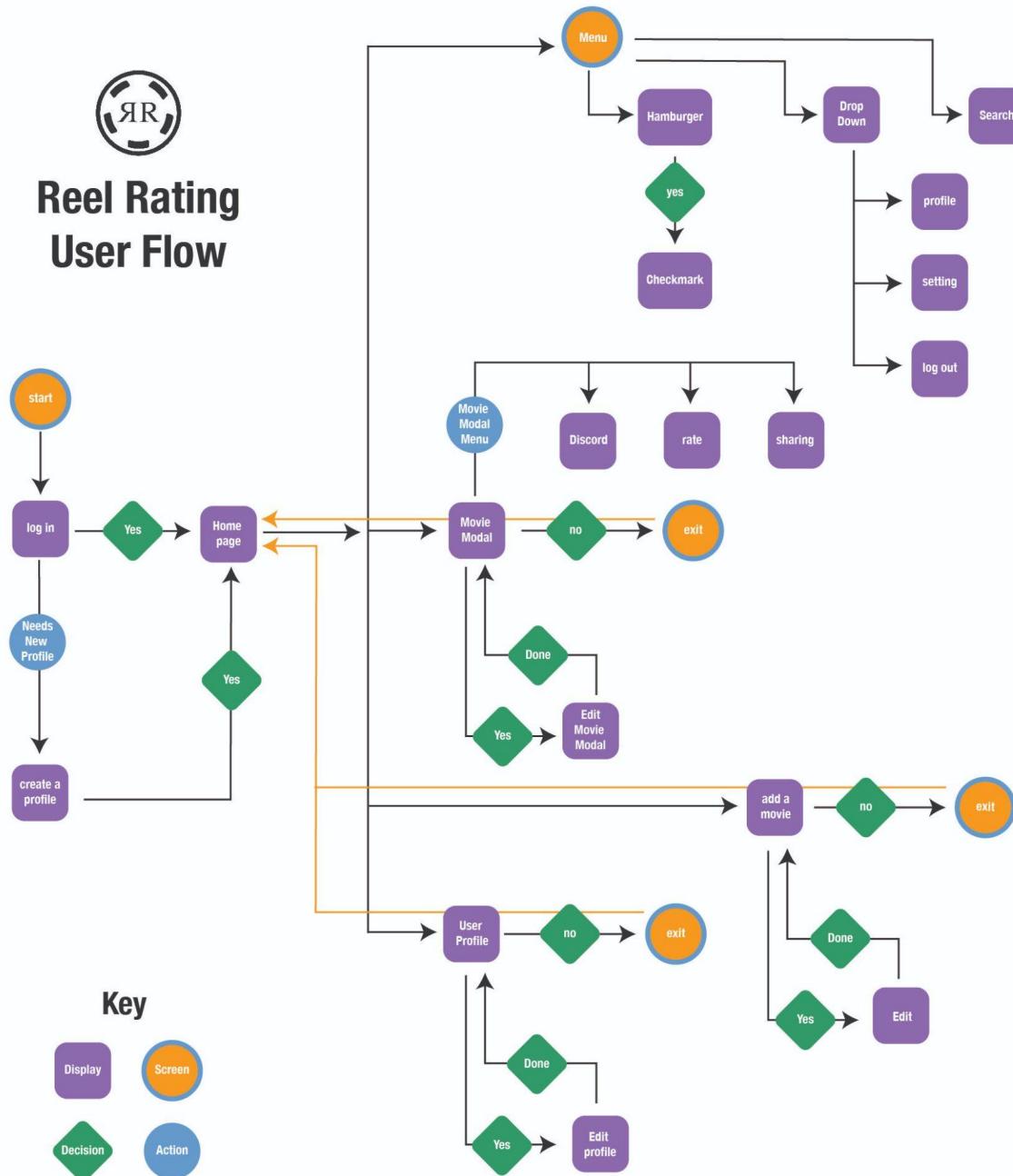
Input: Left-clicking on anywhere on the notification except the “X” button

Output: Redirect users to the relevant rating that was just posted

4. Images

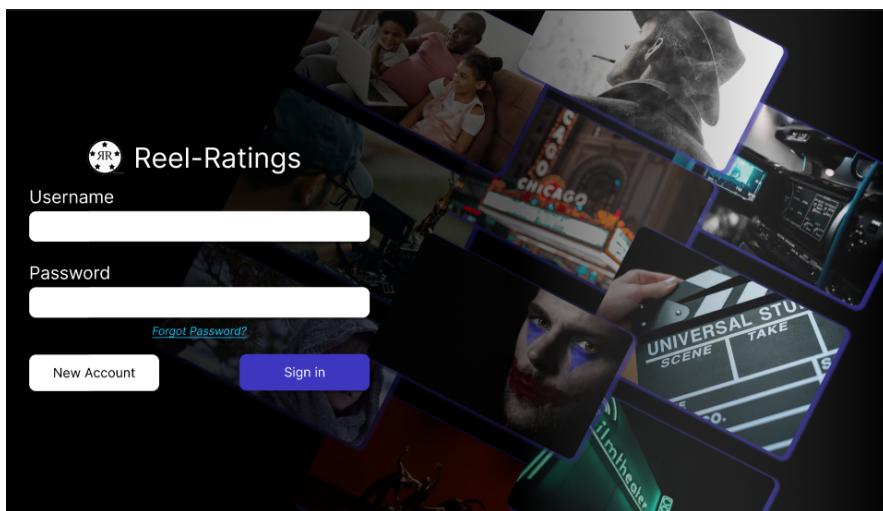
This section is a screen from Figma.

4.1. User Flow

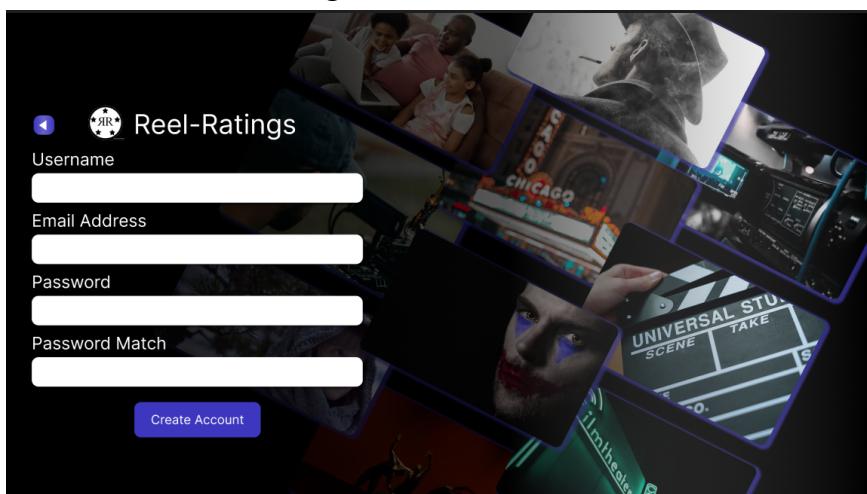


4.2. Login

4.2.1- Login Page



4.2.2- Create Account Page



4.2. Homepage

4.2.1- Default Homepage

The screenshot shows the Reel Ratings homepage with a dark theme. At the top right is a search bar and a profile icon. Below it is a purple button labeled "+ Add A Movie". The main content area has two sections: "New Releases" and "Top Rated".

New Releases:

- The Flash** Overall Quality 1.5
 - Trash
 - Bad
 - See More

Worls collide in "The Flash" when Barry uses his superpowers to travel back in time in order to change the events of the past. But when...
- Barbie** Ken Quality 3.8
 - Goofy
 - Memes
 - See More

To live in Barbie Land is to be a perfect being in a perfect place. Unless you have a full-on existential crisis. Or you're a Ken.
- Indiana Jones and the ...** Clickbait 7.8
 - Treasure
 - Ford
 - See More

Daredevil archeologist Indiana Jones races against time to retrieve a legendary dial that can change the course of history. Accompanied by his...
- The Matrix** Cultural Significance 9.9
 - Tech
 - Iconic
 - See More

Neo (Keanu Reeves) believes that Morpheus (Laurence Fishburne), an elusive figure considered to be the most dangerous man alive,

Show More buttons are available for each item.

Top Rated:

- Oppenheimer** Nolaniness 8.8
- Guardians of the Galaxy ...** Humor 3.8
- Avatar: The Way of Water** Visual Quality 10
- Star Wars The Force** 0.5

4.2.2- Profile Drop Down

The screenshot shows the Reel Ratings homepage with a user profile drop-down menu open. The menu includes options: "Profile", "Add", "Settings", and "Logout". The rest of the page is identical to the previous screenshot, showing the "New Releases" section with movie cards for The Flash, Barbie, Indiana Jones, and The Matrix.

4.2.3- Hamburger Menu

4.3. Profile Page

4.3.1- Viewing your own profile

4.3.2- Viewing someone else's profile you haven't followed

The screenshot shows a user profile for "Justin Briggs". The profile includes a circular icon filled with movie posters, the username "Justin Briggs", the number of movies reviewed (27), the number of people followed (10), and the number of followers (40). A "Follow" button is visible. Below the profile, there is a section titled "New Releases" featuring four movie cards:

- The Flash**: Overall Quality 1.5. Description: "Worlds collide in "The Flash" when Barry uses his superpowers to travel back in time in order to change the events of the past. But when...". Buttons: Trash, Bad, See More.
- Barbie**: Ken Quality 3.8. Description: "To live in Barbie Land is to be a perfect being in a perfect place. Unless you have a full-on existential crisis. Or you're a Ken...". Buttons: Goofy, Memes, See More.
- Indiana Jones and the ...**: Clickbait 7.8. Description: "Daredevil archaeologist Indiana Jones races against time to retrieve a legendary dial that can change the course of history. Accompanied by his...". Buttons: Treasure, Ford, See More.
- The Matrix**: Cultural Significance 9.9. Description: "Neo (Keanu Reeves) believes that Morpheus (Laurence Fishburne), an elusive figure considered to be the most dangerous man alive...". Buttons: Tech, Iconic, See More.

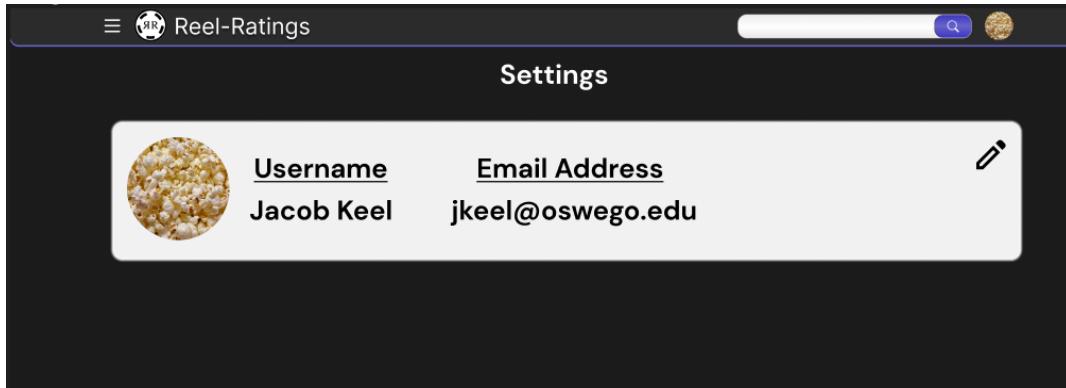
Each movie card has a "Show More" button at the bottom.

4.3.2- Viewing someone else's profile you have followed

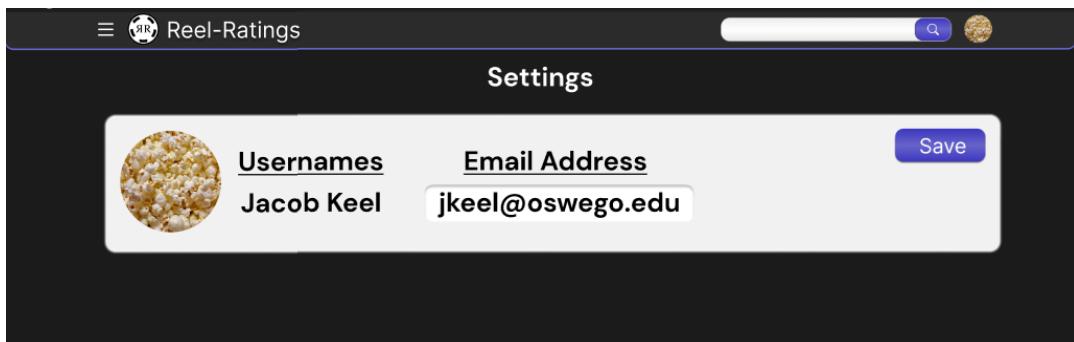
This screenshot is identical to the one above, showing the profile for "Justin Briggs". The only difference is the presence of an "Unfollow" button instead of a "Follow" button, indicating that the user has already followed this profile.

4.4. Profile Page

4.4.1 Uneditable Profile

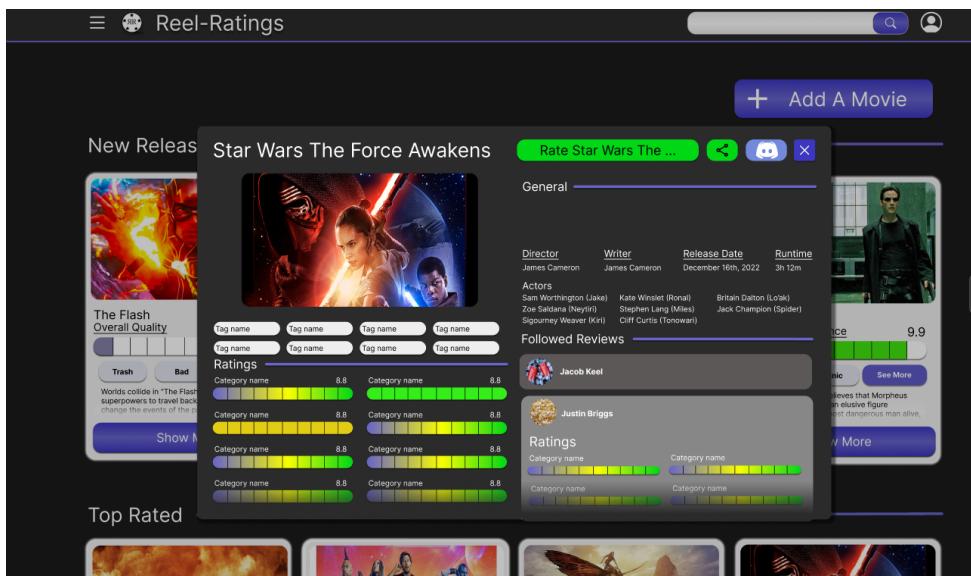


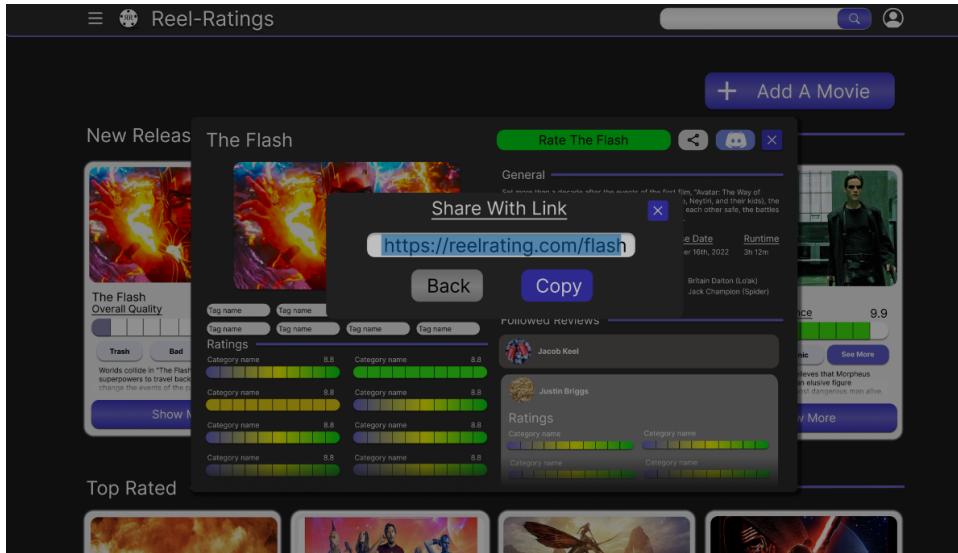
4.4.2 Uneditable Profile



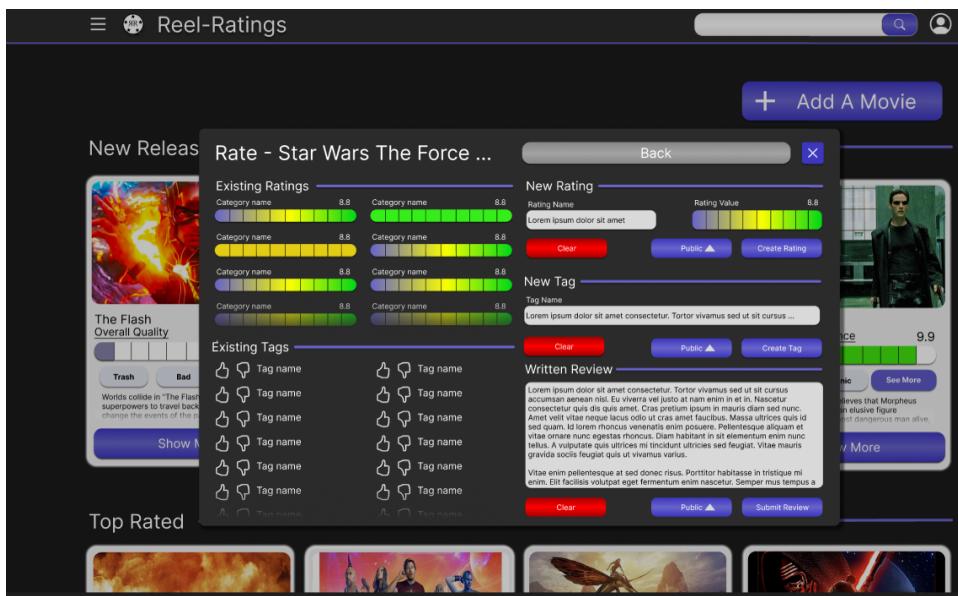
4.5. Modals

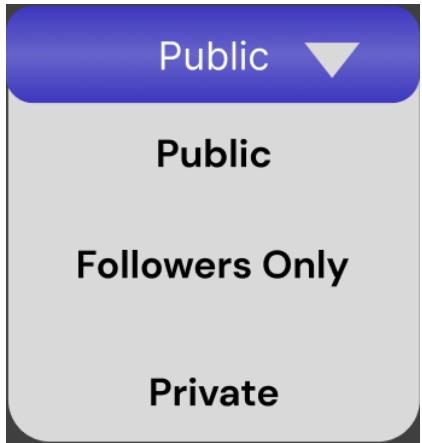
4.5.1 Details Modal and Sharing Modal





4.5.2 Ratings Modal and Privacy Drop Down Menu





4.5.3 Add Movie Modal

Add A Movie

Image

+ ADD IMAGE

Details

Movie Title:

Actors: Add a Actor

Director: Add a Director

Writer: Add a Writer

Release Date:

Runtime:

Summary

Submit

4.6. Search

Reel Ratings- Software Requirements Specifications

≡  Reel-Ratings

Search Results

Results for []

J

 <p>Star Wars The Force Awakens</p> <p>0.5</p> <p>Dark Force</p> <p>Thirty years after the defeat of the Galactic Empire, the First Order is a new threat from the evil Kylo Ren (Adam Driver) and the First Order.</p> <p>Show More</p>	 <p>Barbie Ken Quality</p> <p>3.8</p> <p>Goofy Memes</p> <p>To live in Barbie Land is to be a perfect being in a perfect place. Until you wake up one day and realize you're not. Or you're a doll.</p> <p>Show More</p>	 <p>Indiana Jones and the Kingdom of the Crystal Skull</p> <p>7.8</p> <p>Treasure Ford</p> <p>Daredevil archaeologist Indiana Jones races against time to find a legend that can change the course of history. Adventure has never been so crazy.</p> <p>Show More</p>	 <p>The Matrix Cultural Significance</p> <p>9.9</p> <p>Tech Iconic</p> <p>Neo (Keanu Reeves) believes that Morphus (Laurence Fishburne) is the One. But Trinity (Carrie-Anne Moss) is convinced he is the most dangerous man alive.</p> <p>Show More</p>
 <p>Oppenheimer Nolansness</p> <p>8.8</p> <p>Bombs Memes</p> <p>During World War II, Lt. Gen. Leslie Groves Jr. appoints physicist J. Robert Oppenheimer to work on the top-secret Manhattan Project.</p> <p>Show More</p>	 <p>Guardians of the Galaxy Vol. 2 Humor</p> <p>3.8</p> <p>Funny Space</p> <p>During World War II, Lt. Gen. Leslie Groves Jr. appoints physicist J. Robert Oppenheimer to work on the top-secret Manhattan Project.</p> <p>Show More</p>	 <p>Avatar: The Way of Water Visual Quality</p> <p>10</p> <p>BLUE CGI</p> <p>Set more than a decade after the events of the first film, "Avatar: The Way of Water" begins to tell the story of the Sully family: Jake, Neytiri, and their children.</p> <p>Show More</p>	 <p>Star Wars The Force Awakens</p> <p>0.5</p> <p>Dark Force</p> <p>Thirty years after the defeat of the Galactic Empire, the galaxy faces a new threat from the evil Kylo Ren (Adam Driver) and the First Order.</p> <p>Show More</p>