

# Project Report:

## Group #38

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## Abstract

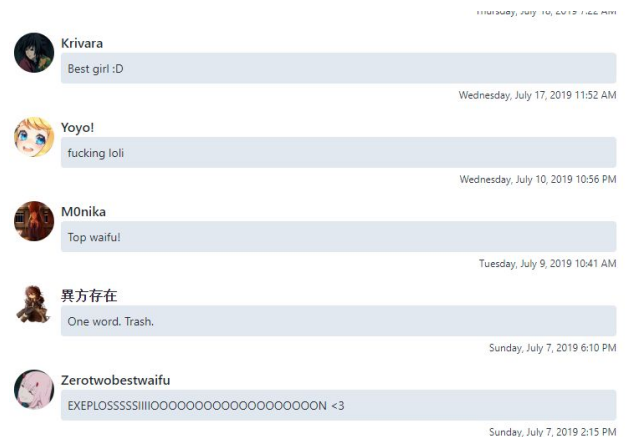
Our project is a web application that allows users to rate their favorite fictional characters. This concept was inspired by RateMyProfessors.com and database websites like MyAnimeList.net or AnimeCharacterDatabase.com. Although there exists an uncountable number of fictional characters, a select few are always ranked highly across many of these websites without any informative content as to what makes them more popular. Our goal for this project is to create a system that helps users understand why certain characters are favored over others. Using rating concepts similar to RateMyProfessor.com, we are able to generate a rating score for fictional characters determined by a small questionnaire followed by a text section for comments or elaboration.

## Introduction

The admiration of animated fictional characters is an ongoing trend that has long existed throughout the evolution of technology. This admiration has grown significantly in recent decades and many people now choose refer to these characters as “Waifus.” Every source of fictional media will have some collection of characters. Given the number of animated series, manga or comics, and even games that have been released, the number of characters, or “waifus” that exist has become uncountable.

## Problem Definition

Considering the exponentially increasing number of characters that have been released over the decades, we expect to find a diverse selection of characters admired by most people. However, after researching several sources such as MyAnimeList.net or mywaifulist.moe, we find that a select few characters are significantly more popular to the public than others. To the right is an example of comments



listed on mywaifulist.moe for the character Megumin from the anime Konosuba. We find that the comments section on these sites for each character is often completely cluttered with catch-phrases or comments that lack informative content. These comments fail to help us understand why characters such as Megumin stand out more than others.

## Our Solution

To understand why certain characters are more admired than others, we explored several rating sites. We found that RateMyProfessor.com had an excellent system for rating professors, and we decided to implement a similar approach towards waifus. When rating a professor, you are prompted with a small questionnaire to determine a score followed by a comment section to support the rating. By implementing a system like RateMyProf, we can generate a rating score determined by some questionnaire in addition to user comments to better understand why some characters are more popular than others.

## Project Design

There are three types of users for our system; admins, registered users, and guests. A guest user is anyone who has not created an account for website. Anyone is able to browse and search anime and characters, filter anime and characters by some category tag, and view details about anime, characters and the ratings posted by registered users. Accessing other features such as uploading anime or characters or rating a character is restricted to registered users and admins only. Guests who try to access these features will be redirected to the Login page.

We have prefilled a database of characters and anime for illustrative purposes, and any new entries can be uploaded by registered users. To ensure accurate information, these uploads will not be added to the public database until they have been reviewed and approved by an admin. Registered users are able to rate characters, where they will be prompted to fill out a small questionnaire and provide comments or reasoning for the rating. The questionnaire will determine scores for attributes such as the character's appearance or personality. Once posted, the overall average of each attribute is calculated from all the ratings. Character pages contain all the ratings for that character. User pages contain all of the ratings created by that user. The home page shows a list of the most recent ratings.

Any pending uploads can be viewed on an admin page by accessing "localhost:5000/admin". If the user is not an admin, he will be redirected to the home page if he tries to access this page. Admins can see all the uploads submitted and can approve or decline the submission. If approved, the submission will be added to the database. The submission is cleared from the list of pending uploads once the admin approves or declines the submission.

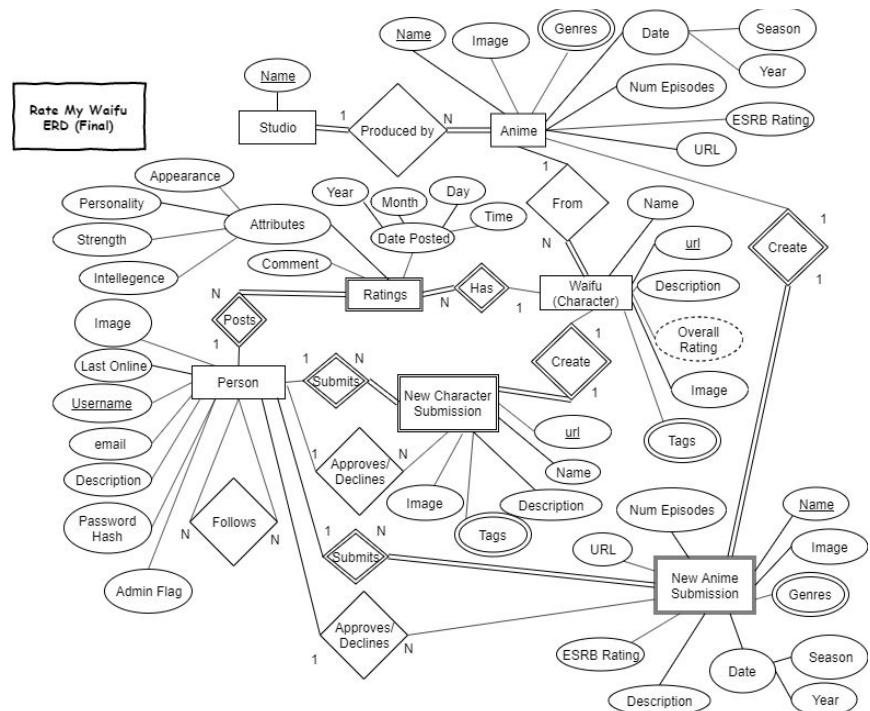
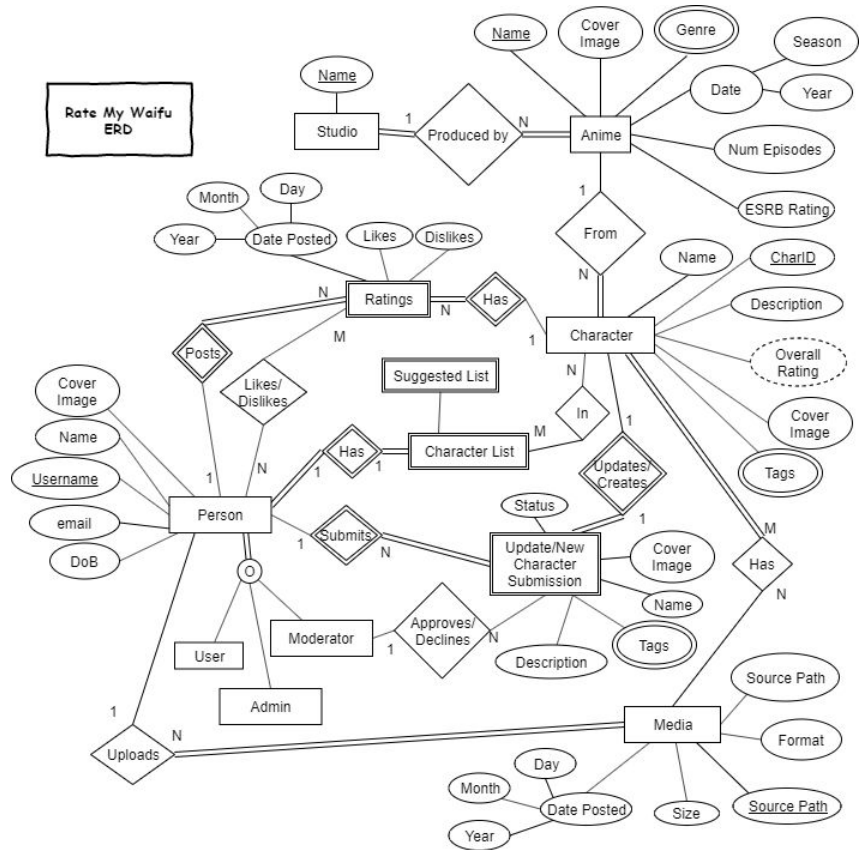
## Entity Relation Diagram

Things that were removed from the ERD:

- Gallery of uploaded media for characters
- liking/disliking user's ratings
- List of user favorite characters and a suggested list of characters
- Removed moderator, using Admin instead

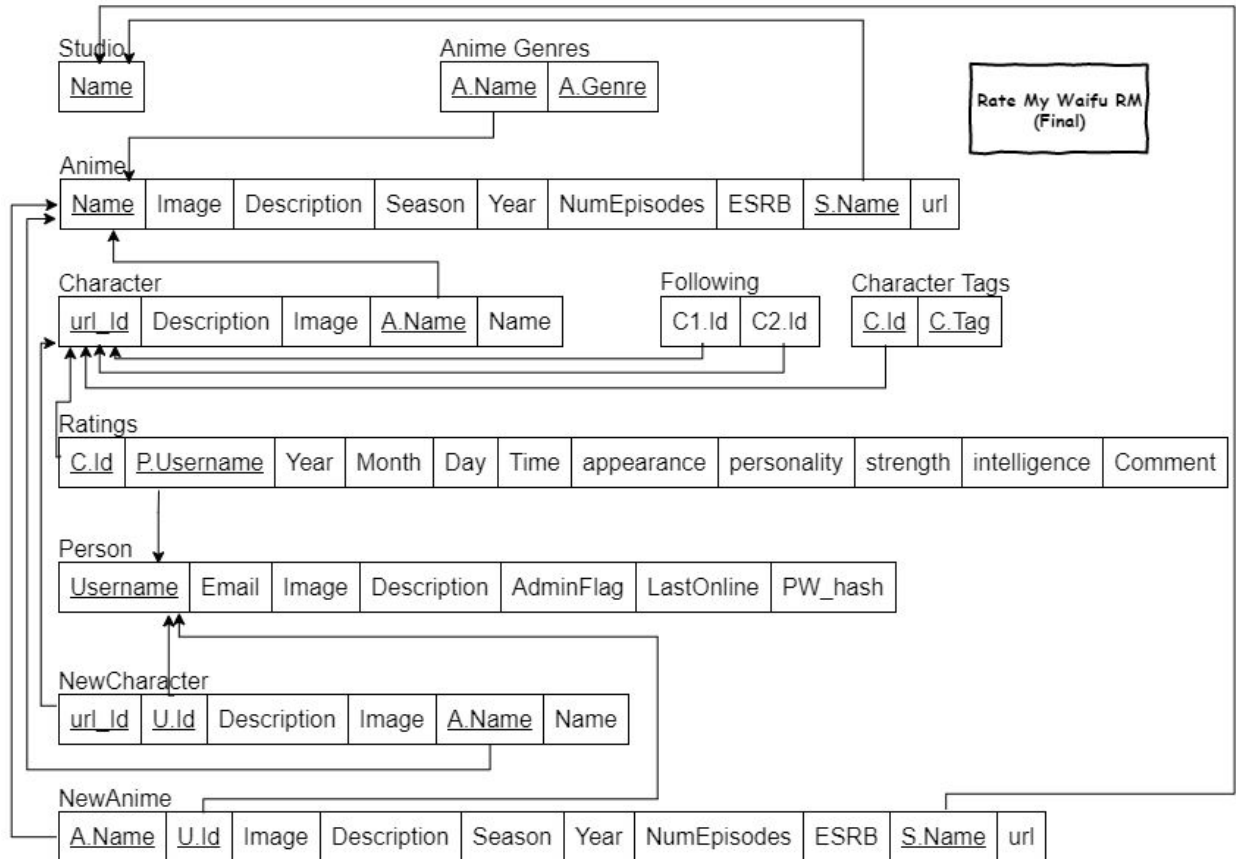
Things that were added to the ERD:

- Numeric Attributes were added to Ratings
- Description of anime
- Password hash and admin flag for users
- Urls for anime and characters
- New anime submission
- Users can follow other users



# Implementation

## Relational Model



We used the Flask micro web framework to create the website application. We used Bootstrap for the front-end of the website.

## Database Management System (DBMS)

We used SQLite as our relational database management system and SQLAlchemy to perform our queries. SQLAlchemy queries translate into equivalent raw SQLite queries but prevent SQL injection attacks when reading data from text fields such as our search bar or when displaying a list of filtered results when the user clicks a link on a page like one of the genres of an anime.

## Some SQL Queries

```
@app.route('/anime/<url>')
def anime(url):
    anime = Anime.query.filter_by(url=url).first_or_404()
    waifus = db.engine.execute("Select * from waifu where
anime_name=(select name from anime as a where a.url=:mv)", {'mv':url})
    genres = db.engine.execute("Select * from anime_genres where
anime_name=(select name from anime as a where a.url=:mv)", {'mv':url})
    return render_template('anime.html', waifus=waifus, anime=anime,
genres=genres)
```

- On any anime page:
  - 'anime' contains a single row from anime along with all its attributes.
  - 'waifus' contains a list of characters that are from the anime
  - 'genres' contains all the genres the anime fall in. genres are stored in a separate table because it is a multivariable attribute of anime

```
@app.route('/animeRelease/<data>')
def browse_anime_by_release(data):
    animes = db.engine.execute("Select * from anime where (season=:gv or
year=:gv or studio=:gv)", {'gv':data})
    return render_template('browse_anime_by_release.html', animes=animes,
data=data)
```

- Whenever a season, year or studio is clicked:
  - 'anime' contains a list of anime from the season, year or studio it was released where season={Winter, Spring, Summer, Fall}, 1990<=year<=2019 and studio=/\*some string\*/,

```
@app.route('/waifuTags/<tag>')
def browse_waifu_by_tag(tag):
    waifus = db.engine.execute("Select * from waifu join waifu_tags on
name=waifu_name where tag=:gv", {'gv':tag})
    return render_template('browse_waifus_by_tag.html', waifus=waifus,
Anime=Anime, tag=tag)
```

- Whenever a character tag is clicked:
  - 'waifus' contains a list of characters that contain the tag that was clicked. Waifu\_tags is a multivariable attribute and is stored on a separate table.



# Snapshots

## Features where user sign-in is NOT required

### Browsing Anime and Waifus

Browsing Anime					
Name	Season	Year	Number of Episodes	Rating	
Guilty Crown	Fall	2011	22	R - 17+ (violence & profanity)	
Kantai Collection: KanColle	Winter	2015	12	PG-13 - Teens 13 or older	
Kono Subarashi Sekai ni Shukufuku wo!	Winter	2016	10	PG-13 - Teens 13 or older	
Kono Subarashi Sekai ni Shukufuku wo! 2	Winter	2017	10	PG-13 - Teens 13 or older	
Brandish	Summer	2012	2	R - Hentai	
K-On!	Spring	2009	13	PG-13 - Teens 13 or older	
Nekopara	Winter	2017	1	PG-13 - Teens 13 or older	
Oni Chichi Re-birth	Spring	2011	1	R - Hentai	
K	Fall	2012	13	PG-13 - Teens 13 or older	
Demon Slayer	Spring	2019	26	Rating: R - 17+ (violence & profanity)	
No Game No Life	Spring	2014	12	PG-13 - Teens 13 or older	
Attack on Titan	Spring	2013	25	R - 17+ (violence & profanity)	
Sword Art Online	Summer	2012	25	PG-13 - Teens 13 or older	

Browsing Waifus	
Name	Anime
Inori Yuzuriha	Guilty Crown
Ayase Shinomiya	Guilty Crown
Shimakaze	Kantai Collection: KanColle
Amatsukaze	Kantai Collection: KanColle
Yokitsukaze	Kantai Collection: KanColle
Hibiki	Kantai Collection: KanColle
Akatsuki	Kantai Collection: KanColle
Inazuma	Kantai Collection: KanColle
Ikazuchi	Kantai Collection: KanColle
Yun'yun	Kono Subarashi Sekai ni Shukufuku wo! 2
Aqua	Kono Subarashi Sekai ni Shukufuku wo!
Megumin	Kono Subarashi Sekai ni Shukufuku wo!
Darkness	Kono Subarashi Sekai ni Shukufuku wo!
Twiska	Brandish
Azusa Nakano	K-On!
Yui Hirasawa	K-On!
Mio Akiyama	K-On!
Ritsu Tanaka	K-On!
Tsumugi Kotobuki	K-On!
Cococat	Nekopara
Chocola	Nekopara
Vanilla	Nekopara
Azuki	Nekopara
Maple	Nekopara

## Browsing Anime by Season, Year, Studio or Genre

Browse Upload

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### Kono Subarashii Sekai ni Shukufuku wo!

Studio: [Studio Deen](#)

Premiered: [Winter 2016](#)

Number of Episodes: 10

Rating: [PG-13 - Teens 13 or older](#)

Genres: [Adventure](#) [Comedy](#) [Fantasy](#) [Magic](#) [Parody](#) [Supernatural](#)

After dying a laughable and pathetic death on his way back from buying a game, high school student and recluse Kazuma Satou finds himself sitting before a beautiful but obnoxious goddess named Aqua. She provides the NEET with two options: continue on to heaven or reincarnate in every gamer's dream—a real fantasy world! Choosing to start a new life, Kazuma is quickly tasked with defeating a Demon King who is terrorizing villages. But before he goes, he can choose one item of any kind to aid him in his quest, and the future hero selects Aqua. But Kazuma has made a grave mistake—Aqua is completely useless! Unfortunately, their troubles don't end here; it turns out that living in such a world is far different from how it plays out in a game. Instead of going on a thrilling adventure, the duo must first work to pay for their living expenses; indeed, their misfortunes have only just begun! [Written by MAL Rewrite]

### Waifus from this Anime

Name	Anime
Aqua	<a href="#">Kono Subarashii Sekai ni Shukufuku wo!</a>
Megumin	<a href="#">Kono Subarashii Sekai ni Shukufuku wo!</a>
Darkness	<a href="#">Kono Subarashii Sekai ni Shukufuku wo!</a>

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### Anime from Studio Deen

Name	Season	Year	Number of Episodes	Rating
<a href="#">Kono Subarashii Sekai ni Shukufuku wo!</a>	<a href="#">Winter</a>	<a href="#">2016</a>	10	<a href="#">PG-13 - Teens 13 or older</a>
<a href="#">Kono Subarashii Sekai ni Shukufuku wo! 2</a>	<a href="#">Winter</a>	<a href="#">2017</a>	10	<a href="#">PG-13 - Teens 13 or older</a>

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### Anime from Winter

Name	Season	Year	Number of Episodes	Rating
<a href="#">Kantai Collection: KanColle</a>	<a href="#">Winter</a>	<a href="#">2015</a>	12	<a href="#">PG-13 - Teens 13 or older</a>
<a href="#">Kono Subarashii Sekai ni Shukufuku wo!</a>	<a href="#">Winter</a>	<a href="#">2016</a>	10	<a href="#">PG-13 - Teens 13 or older</a>
<a href="#">Kono Subarashii Sekai ni Shukufuku wo! 2</a>	<a href="#">Winter</a>	<a href="#">2017</a>	10	<a href="#">PG-13 - Teens 13 or older</a>
<a href="#">Nekopara</a>	<a href="#">Winter</a>	<a href="#">2017</a>	1	<a href="#">PG-13 - Teens 13 or older</a>

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### Anime from 2011

Name	Season	Year	Number of Episodes	Rating
<a href="#">Guilty Crown</a>	<a href="#">Fall</a>	<a href="#">2011</a>	22	<a href="#">R - 17+ (violence &amp; profanity)</a>
<a href="#">Oni Chichi Re-birth</a>	<a href="#">Spring</a>	<a href="#">2011</a>	1	<a href="#">Rx - Hentai</a>

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### Anime in "Comedy" genre


Name	Season	Year	Number of Episodes	Rating
<a href="#">Kono Subarashii Sekai ni Shukufuku wo!</a>	<a href="#">Winter</a>	<a href="#">2016</a>	10	<a href="#">PG-13 - Teens 13 or older</a>
<a href="#">Kono Subarashii Sekai ni Shukufuku wo! 2</a>	<a href="#">Winter</a>	<a href="#">2017</a>	10	<a href="#">PG-13 - Teens 13 or older</a>
<a href="#">K-On!</a>	<a href="#">Spring</a>	<a href="#">2009</a>	13	<a href="#">PG-13 - Teens 13 or older</a>
<a href="#">Nekopara</a>	<a href="#">Winter</a>	<a href="#">2017</a>	1	<a href="#">PG-13 - Teens 13 or older</a>
<a href="#">No Game No Life</a>	<a href="#">Spring</a>	<a href="#">2014</a>	12	<a href="#">PG-13 - Teens 13 or older</a>

## Browsing Waifus by Tags

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### Yui Hirasawa

Appears in: K-On!

Tags: ribbon school uniform hairclip tights musician singer guitarist


Yui Hirasawa (平沢ひらさわ 唯い) is one of the main characters and the protagonist of the series K-On!. She is the air-headed lead guitarist and vocalist of the band Hi-go Tea Time.

Appearance: 6.7

Personality: 6.1

Combat Ability: 6.0

Intelligence: 6.1



CatGirlOver99 rated Yui Hirasawa an hour ago:

Appearance: 7  
Personality: 9  
Combat Ability: 1

RATE MY PRINCESS WAIFUS

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### Waifus with "school uniform" tag

Name	Anime
Amatsukaze	Kantai Collection: KanColle
Hibiki	Kantai Collection: KanColle
Akatsuki	Kantai Collection: KanColle
Inazuma	Kantai Collection: KanColle
Razuchi	Kantai Collection: KanColle
Azusa Nakano	K-On!
Yui Hirasawa	K-On!
Mio Akiyama	K-On!
Ritsu Tainaka	K-On!
Tsumugi Kotobuki	K-On!
Marina Akitsuki	Oni Chichi: Re-birth

## Searching

When a string is entered in the search bar, all anime and waifus that has the string as a substring in their name or description will be listed. For the following example, the string “yu” was entered in the search bar.

**RATE MY PRINCE Waifus** Browse Upload

Search  Search Profile Logout

### Search Results!

#### From Waifus

Name	Anime
Inori Yuzuriha	Guilt Crown
Amatsukaze	Kantai Collection: KanColle
Tokitsukaze	Kantai Collection: KanColle
Inazuma	Kantai Collection: KanColle
YunYun	Kono Subarashi Sekai ni Shukufuku wo! 2
Azusa Nakano	K-On!
Yui Hirazawa	K-On!
Ritsa Tainaka	K-On!
Kanako Tsuburi	Demon Slayer
Azuna Yuuki	Sword Art Online

#### From Anime

Name	Season	Year	Number of Episodes	Rating
Guilt Crown	Fall	2011	22	R - 17+ (violence & profanity)
K-On!	Spring	2009	13	PG-13 - Teens 13 or older
Sword Art Online	Summer	2012	25	PG-13 - Teens 13 or older

**RATE MY PRINCE Waifus** Browse Upload

Search  1/6

### Search Results!

#### From Waifus


Name	Anime
Inori Yuzuriha	Guilt Crown
Amatsukaze	Kantai Collection: KanColle
Tokitsukaze	Kantai Collection: KanColle
Inazuma	Kantai Collection: KanColle
YunYun	Kono Subarashi Sekai ni Shukufuku wo! 2
Azusa Nakano	K-On!
Yui Hirazawa	K-On!
Ritsa Tainaka	K-On!
Kanako Tsuburi	Demon Slayer
Azuna Yuuki	Sword Art Online

#### From Anime

Name	Season	Year	Number of Episodes	Rating
Guilt Crown	Fall	2011	22	R - 17+ (violence & profanity)
K-On!	Spring	2009	13	PG-13 - Teens 13 or older
Sword Art Online	Summer	2012	25	PG-13 - Teens 13 or older

**RATE MY PRINCE Waifus** Browse Upload

Search  1/1



### Tokitsukaze

Appears in: Kantai Collection: KanColle

Tags: pantyhose

Her shirt, tied off into a knot on her left hip, resembles that of Amatsukaze, and she wears a small hat cocked to the left, like Amatsukaze. She also wears sheer stockings (which tend to look like pantyhose, at first, especially due to the thighband) with a side seam. She has short black hair with "ears" fading to a light gray at the tips as well as brown eyes. Her hairstyle seems to strike some artists as making her look sort of like a dog. Naturally, many of them have taken this idea and run with it.

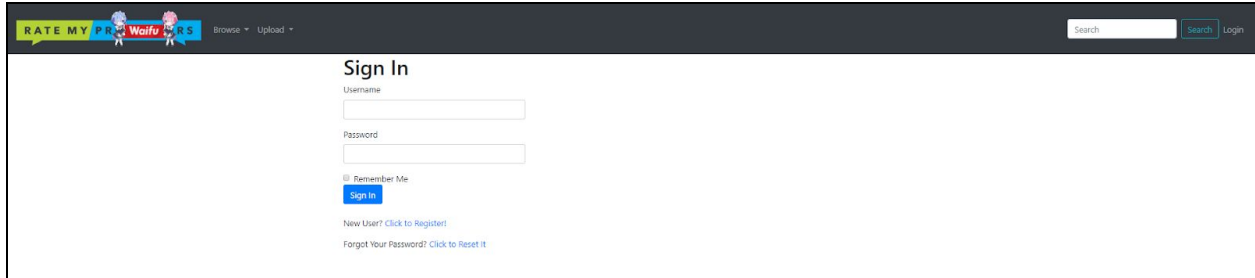
Appearance: 6.2  
Personality: 5.1  
Combat Ability: 6.4  
Intelligence: 5.0

Rate This Waifu

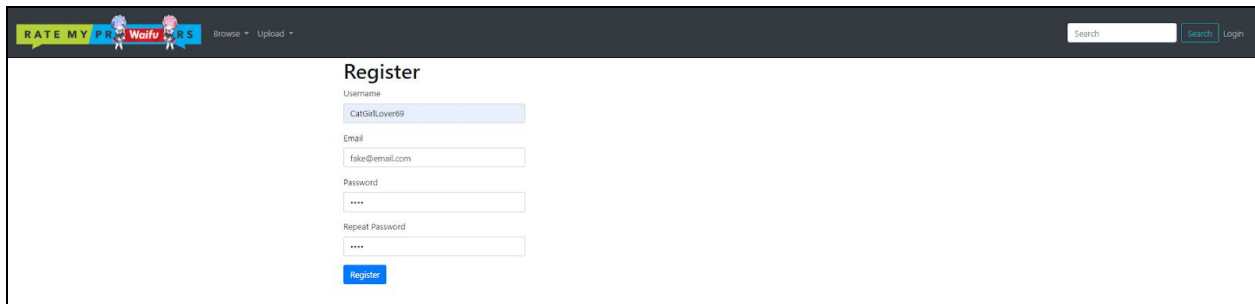
## Features where user sign-in IS required

### Registering and Logging in

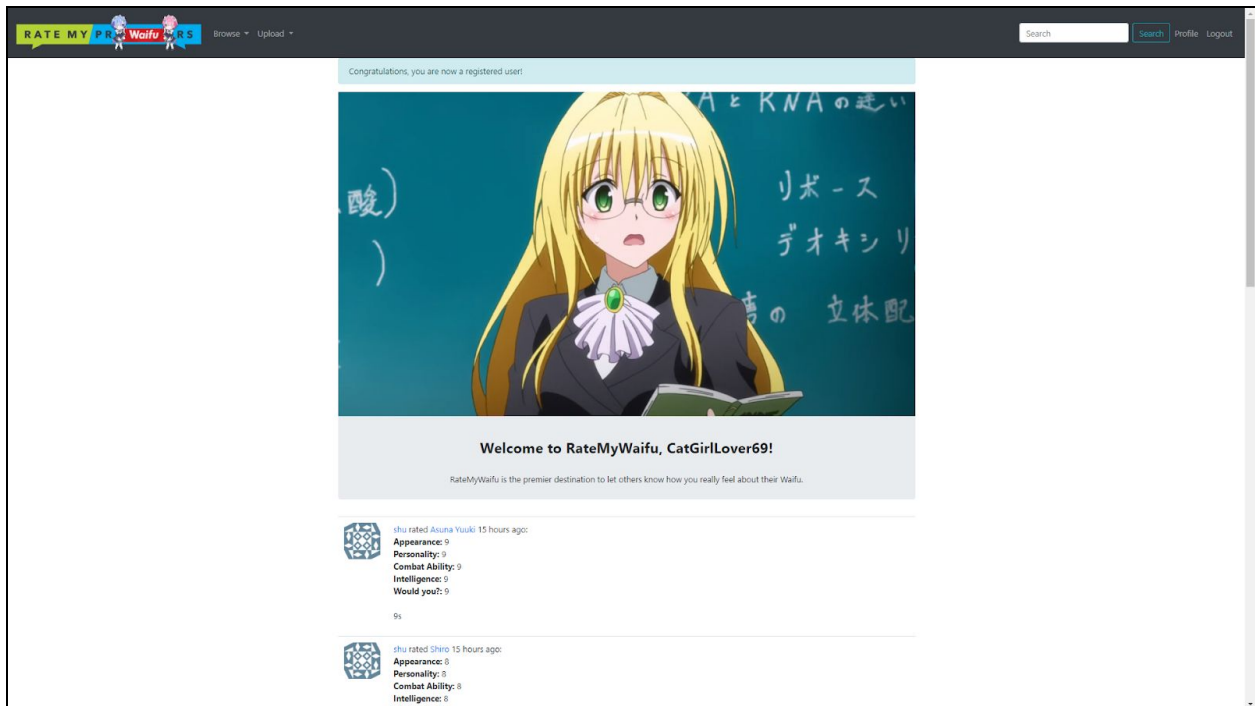
The email field requires an entry in the form [X@X.ca](#) or [X@X.com](#)



The Sign In form is located at the top of the page. It features a header with the site logo and navigation links. The form itself has a title 'Sign In' and two input fields for 'Username' and 'Password'. Below these fields is a checkbox labeled 'Remember Me' and a 'Sign In' button. At the bottom of the form, there are two links: 'New User? Click to Register!' and 'Forgot Your Password? Click to Reset it'.



The Register form is located below the Sign In form. It has a title 'Register' and four input fields: 'Username' (with the value 'CatGirlLover69'), 'Email' (with the value 'fake@email.com'), 'Password', and 'Repeat Password'. There are also 'Register' and 'Sign In' buttons. The form is styled with a light blue background and rounded corners.



The User profile page shows a welcome message to the user 'CatGirlLover69'. It features a large anime-style illustration of a blonde girl with green eyes, wearing a black school uniform with a white collar and a green gem. Below the illustration, there is a 'Welcome to RateMyWaifu, CatGirlLover69!' message and a link to the user's profile. The page also displays a list of recent ratings for the user, including 'shu rated Aina Yuuki' and 'shu rated Shiro', with their respective scores and timestamps.

## Uploading

Any upload submissions will be redirected to the browse page with a notification at the top of the list saying the submission is now pending and will not be added to the database until approved by an admin.

The screenshot shows the 'Upload Anime' form on the Rate My Anime website. The form includes the following fields and options:

- Name:** Akame ga Kill
- Season:** Summer
- Year:** 2014
- Number of Episodes:** 24
- ESRB Rating:** R - 17+ (violence & profanity)
- Description:** Night Raid is the covert assassination branch c
- Image:** akamegakill.jpg
- URL:** akamegakill
- Studio Name:** White Fox
- Genres:** A list of anime genres with checkboxes. The checked genres are: Action, Adventure, Comedy, Drama, Demons, Ecchi, Fantasy, Game, Harem, Hentai, Historical, Horror, Isekai, Kids, Magic, Martial Arts, Mecha, Military, Music, Mystery, Parody, Post-Apocalyptic, Psychological, Romance, Sci-Fi, Shounen, Slice of Life, Sports, Supernatural, Super Power, Vampire, Yaoi, and Yuni.
- Upload:** A blue button at the bottom of the form.

RATE MY PRINCESS Waifus Browse Upload Search Profile Logout

Congratulations, you make a Anime! (Acceptance Pending)

### Browsing Anime

Name	Season	Year	Number of Episodes	Rating
Guilty Crown	Fall	2011	22	R - 17+ (violence & profanity)
Kantai Collection: KanColle	Winter	2015	12	PG-13 - Teens 13 or older
Kono Subarashii Sekai ni Shukufuku wo!	Winter	2016	10	PG-13 - Teens 13 or older
Kono Subarashii Sekai ni Shukufuku wo! 2	Winter	2017	10	PG-13 - Teens 13 or older
Brandish	Summer	2012	2	Rx - Hentai
K-On!	Spring	2009	13	PG-13 - Teens 13 or older
Nekopara	Winter	2017	1	PG-13 - Teens 13 or older
Oni Chichi: Re-birth	Spring	2011	1	Rx - Hentai
K	Fall	2012	13	PG-13 - Teens 13 or older
Demon Slayer	Spring	2019	26	Rating: R - 17+ (violence & profanity)
No Game No Life	Spring	2014	12	PG-13 - Teens 13 or older
Attack on Titan	Spring	2013	25	R - 17+ (violence & profanity)
Sword Art Online	Summer	2012	25	PG-13 - Teens 13 or older

RATE MY PRINCESS Waifus Browse Upload Search Profile Logout

### Upload Waifu

Name

Description

Image

URL

Anime Name

Tags (separate by commas)

RATE MY PRINCESS Waifus Browse Upload Search Profile Logout

Congratulations, you make a Waifu! (Acceptance Pending)

### Browsing Waifus

Name	Anime
Inori Yuzuriha	Guilty Crown
Ayase Shinomiya	Guilty Crown
Shimakaze	Kantai Collection: KanColle
Amatsukaze	Kantai Collection: KanColle
Tokitsukaze	Kantai Collection: KanColle
Hibiki	Kantai Collection: KanColle
Akatsuki	Kantai Collection: KanColle
Inazuma	Kantai Collection: KanColle
Ikazuchi	Kantai Collection: KanColle
YunYun	Kono Subarashii Sekai ni Shukufuku wo! 2
Aqua	Kono Subarashii Sekai ni Shukufuku wo!
Megumin	Kono Subarashii Sekai ni Shukufuku wo!
Darkness	Kono Subarashii Sekai ni Shukufuku wo!
Twiska	Brandish
Azusa Nakano	K-On!
Yui Hirasawa	K-On!
Mio Akiyama	K-On!
Ritsu Tainaka	K-On!
Tsumugi Kotobuki	K-On!
Coconut	Nekopara
Chocola	Nekopara
Vanilla	Nekopara
Azuki	Nekopara


## Rating Waifus

Every rating posted will have a score for different attributes which is used to calculate the overall average of each attribute from all the comments on that character. In addition to the character page, ratings can be viewed on the user's profile page and the home page and is sorted by newest rating.

**RATE MY PRINCESS Waifus** Browse Upload

Search Profile Logout

### Currently Rating Coconut



Rate this Waifu's appearance (1-10):

Rate this Waifu's personality (1-10):

Rate this Waifu's combat ability (1-10):

Rate this Waifu's intelligence (1-10):

Would you?  
especially if she in a maid outfit:

Tell us how you really feel about this Waifu:

Submit

**RATE MY PRINCESS Waifus** Browse Upload

Search Profile Logout

Congratulations, you rate a Waifu!

### Coconut


Appears in: Nekopara

Tags: heterochromia neko cat ears tail shorts


As one of the younger Minaduki catgirls, Coconut is among the more emotional of them. Contrary to her outward appearance, she expresses a strong desire to be considered cute, rather than be known for her physical strength. As a Maine Coon kitten she has rapidly developed an adult body which she is self-conscious about; her rapid physical development is what triggered her desire to mature as quickly as possible so as not to be a burden to Kashou or her sisters, and develops a "mature" façade to compensate. This however backfires, and causes her to overwhelm herself and become extremely clumsy. Her repeated clumsiness then causes her to develop a low self-esteem and frequently fall into extreme bouts of self-deprecation.

Appearance: 6.5  
Personality: 6.6  
Combat Ability: 4.8  
Intelligence: 5.7


[Rate This Waifu](#)

 [SuccubusPleasantTakeMe](#) rated Coconut a few seconds ago:  
Appearance: 10  
Personality: 8  
Combat Ability: 3  
Intelligence: 5  
Would you?: especially if she in a maid outfit

I Love Coconut, I honestly wish I was the protagonist in Nekopara so I can be with her. If that were the case, She would be my main girl instead of the other catgirls Vanilla and Chocobai.

 [CatGirlLover69](#) rated Coconut an hour ago:  
Appearance: 10  
Personality: 10  
Combat Ability: 2  
Intelligence: 10  
Would you?: yes sir

bretty gud


 [CatGirlLover69](#) rated Coconut an hour ago:



RATE MY WAIFU

Browse Upload

[Profile](#)
[Logout](#)




SuccubusPleaseTakeMe

Last seen on: December 6, 2019 0:25 PM

0 followers, 0 following

[Edit your profile](#)



SuccubusPleaseTakeMe rated Coconut 3 minutes ago:

Appearance: 10

Personality: 8

Combat Ability: 3

Intelligence: 5


Would you?: especially if she in a maid outfit

I Love Coconut, I honestly wish i was the protagonist in Nekopara so i can be with her, if that were the case, She would be my main girl instead of the other catgirls Vanilla and Chocola.

RATE MY WAIFU


Browse Upload

[Profile](#)
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Welcome to RateMyWaifu, SuccubusPleaseTakeMe!

RateMyWaifu is the premier destination to let others know how you really feel about their Waifu.



SuccubusPleaseTakeMe rated Coconut a few seconds ago:

Appearance: 10


Personality: 8

Combat Ability: 3

Intelligence: 5

Would you?: especially if she in a maid outfit

I Love Coconut, I honestly wish i was the protagonist in Nekopara so i can be with her, if that were the case, She would be my main girl instead of the other catgirls Vanilla and Chocola.



CatGirlLover09 rated Mio Akiyama an hour ago:

Appearance: 7

Personality: 8

Combat Ability: 6

Intelligence: 6

Would you?: yes sir

## Features where user sign-in IS required

### Reviewing Upload Submissions

The “localhost:5000/admin” page can only be accessed by users that are admins. Anyone else will be redirected to the home page. This contains all the pending submissions which are removed when the submission is approved or declined. If approved, the upload will be entered in the database, and can now be browsed or searched.

The screenshot shows the Admin Page with two sections: Pending Waifu Submissions and Pending Anime Submissions.

**Pending Waifu Submissions**

Name	Description	Image	URL	Anime	
Mine	Mine is a young girl of below average height. She has very long pink hair tied in twin-tails on the right and left sides of her head, although on occasion it is free-flowing. She has big pink eyes. She wears a pink outfit, consisting of a tied shawl with a high collar, a pink long sleeve shirt, a gown and black stockings with pink shoes.	mine.jpg	mine	Akame ga Kill	<input type="button" value="Accept"/> <input type="button" value="Reject"/>

**Pending Anime Submissions**

Name	Season	Year	Number of Episodes	ESRB	Description	Image	URL	
Akame ga Kill	Summer	2014	24	R - 17+ (violence & profanity)	Night Raid is the covert assassination branch of the Revolutionary Army, an uprising assembled to overthrow Prime Minister Honest, whose avarice and greed for power has led him to take advantage of the child emperor's inexperience. Without a strong and benevolent leader, the rest of the nation is left to drown in poverty, strife, and run. Though the Night Raid members are all experienced killers, they understand that taking lives is far from commendable and that they will likely face retribution as they mercilessly eliminate anyone who stands in the revolution's way. This merry band of assassins' newest member is Tatsumi, a naive boy from a remote village who had embarked on a journey to help his impoverished hometown and was won over by not only Night Raid's ideals, but also their resolve. Akame ga Kill: Fight Against the Darkness.	akamegakill.jpg	akamegakill	<input type="button" value="Accept"/> <input type="button" value="Reject"/>

This screenshot is identical to the one above, showing the Admin Page with Pending Waifu and Anime Submissions.


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Browsing Anime				
Name	Season	Year	Number of Episodes	Rating
Guilty Crown	Fall	2011	22	R - 17+ (violence & profanity)
Kantai Collection: KanColle	Winter	2015	12	PG-13 - Teens 13 or older
Kono Subarashi Sekai ni Shukufuku wo!	Winter	2016	10	PG-13 - Teens 13 or older
Kono Subarashi Sekai ni Shukufuku wo! 2	Winter	2017	10	PG-13 - Teens 13 or older
Brandish	Summer	2012	2	R+ - Hentai
K-On!	Spring	2009	13	PG-13 - Teens 13 or older
Nekopara	Winter	2017	1	PG-13 - Teens 13 or older
Oni Chichi: Re-birth	Spring	2011	1	R+ - Hentai
K	Fall	2012	13	PG-13 - Teens 13 or older
Demon Slayer	Spring	2019	26	Rating: R - 17+ (violence & profanity)
No Game No Life	Spring	2014	12	PG-13 - Teens 13 or older
Attack on Titan	Spring	2013	25	R - 17+ (violence & profanity)
Sword Art Online	Summer	2012	25	PG-13 - Teens 13 or older
Akame ga Kill	Summer	2014	24	R - 17+ (violence & profanity)



## Akame ga Kill

Studio: [None](#)

Premiered: [Summer 2014](#)

Number of Episodes: 24


Rating: [R - 17+ \(violence & profanity\)](#)

Genres: [Action](#) [Adventure](#) [Drama](#) [Fantasy](#) [Shounen](#)

Night Raid is the covert assassination branch of the Revolutionary Army, an uprising assembled to overthrow Prime Minister Honest, whose avarice and greed for power has led him to take advantage of the child emperor's inexperience. Without a strong and benevolent leader, the rest of the nation is left to drown in poverty, strife, and ruin. Though the Night Raid members are all experienced killers, they understand that taking lives is far from commendable and that they will likely face retribution as they mercilessly eliminate anyone who stands in the revolution's way. This merry band of assassins' newest member is Tatsumi, a naive boy from a remote village who had embarked on a journey to help his impoverished hometown and was won over by not only Night Raid's ideals, but also their resolve. Akame ga Kill! follows Tatsumi as he fights the Empire and comes face-to-face with powerful weapons, enemy assassins, challenges to his own morals and values, and ultimately, what it truly means to be an assassin with a cause. [Written by MAL Rewrite]

### Waifus from this Anime

Name	Anime
<a href="#">Mine</a>	<a href="#">Akame ga Kill</a>



## Mine

Appears in: [Akame ga Kill](#)

Tags: [twintails](#) [weapon](#) [dress](#)

Mine is a young girl of below average height. She has very long pink hair tied in twin-tails on the right and left sides of her head, although on occasion it is free-flowing. She has big pink eyes. She wears a pink outfit, consisting of a tied shawl with a high collar, a pink long sleeve shirt, a gown and black stockings with pink shoes.

Appearance: [N/A](#)

Personality: [N/A](#)

Combat Ability: [N/A](#)

Intelligence: [N/A](#)

[Rate This Waifu](#)

## How to run our project:

We used pipenv to handle the virtual environment of our project.

After unzipping our project file and 'cd'-ing into it.

Install pipenv if you do not already have it with "**pip3 install pipenv**" or "**pip install pipenv**" depending on your python version. Note that our project itself requires python3 installed.

Then create and enter the virtual environment with "**pipenv shell**".

Install required dependencies with "**pipenv install**".

Finally, start the application on localhost:5000 with "**python3 ratemywaifu.py**".

---

We have pre-filled a database called **app.db** by parsing **animeCharacters.txt** and **animeList.txt** using the python scripts called **scraper.py**, **scraper2.py**. We also used **scraper3.py** to create an example user and generate many random ratings for the Waifus.

In case the database needs to be regenerated, run this command in the project directory (tested on a unix system).

```
rm -rf migrations/ && rm app.db && flask db init && flask db migrate -m "init" && flask db upgrade && python3 fill_db_with_waifus.py < waifus.txt && python3 fill_db_with_anime.py < anime.txt && python3 generate_ratings.py
```

---

We used DB Browser to view (and manually edit if necessary) our data from app.db which can be downloaded from: <https://sqlitebrowser.org/>

If you want to give a user admin privileges you will have to manually set the admin\_flag in the "user" table:

1. Open DB Browser and open app.db by clicking Open Database.
2. Under the 'Browse Data' tab, select the 'user' table in the dropdown box.
3. Find the user you wish to update, and set its admin\_flag from *Null* to 1.
4. Click 'Write Changes' to update the db.

Otherwise, app.db will already come with an admin user.

(username: CatGirlLover69, password: cat)

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## References

We followed this Flask tutorial and used its code to get a baseline for the project:

<https://blog.miguelgrinberg.com/post/the-flask-mega-tutorial-part-i-hello-world>

We referred to the following websites to implement string searching:

<https://stackoverflow.com/questions/10434599/get-the-data-received-in-a-flask-request>

<https://stackoverflow.com/questions/4926757/sqlalchemy-query-where-a-column-contains-a-substring>

<https://stackoverflow.com/questions/14680145/sqlalchemy-returning-result-as-query-object-instead-of-my-model-type>

Websites that inspired the look and feel of our website:

<https://www.ratemyprofessors.com>

<http://mywaifulist.moe>

Pre-filled anime and character information taken from:

<https://fandom.com>

<https://myanimelist.net>

<http://www.animecharactersdatabase.com>

DB Browser:

<https://sqlitebrowser.org/>