



CS454 Proposal

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Find My Anime

- Simple and easy to use anime searcher
- Over 17000 anime to choose from
- Advanced search feature to allow for better results
- Post search filtering which allows the user to prioritize a data type

The data

- All of the data for our website was scraped from myanimelist.net
- I literally took all 17665 anime from the website except for the extra 1435 that was just hentai (porn)
- The data categories are as follows:
Title, Rating, Link, Picture, Episode count, Airing Dates, Genres, Description and Producers

The data continued




- Each data category was picked for its relevance to user searching
- This data was saved in a csv file but will be converted into an index using whoosh for our backend
- This is a snippet of some of the data that is scraped.

	Title	Rating	Link	Picture	Episodes	Airing Dates	Genres	Description
2	1 Fullmetal Alchemist: Brotherhood	9.16	https://myanimelist.net/anime/5114/Fullmetal_Alchemist__Brotherhood	https://cdn.myanimelist.net/images/anime/1223/5114.jpg	64	5-Apr-09 to 4-Jul-10	Action, Adventure, Comedy, Drama, Fantasy, Military, Shounen	After a horrific alchemist
3	2 Gintama	9.09	https://myanimelist.net/anime/28977/Gintama	https://cdn.myanimelist.net/images/anime/3/7207.jpg	51	8-Apr-15 to 30-Mar-16	Action, Comedy, Sci-Fi, Historical, Parody, Samurai, Shounen	Gintoki, Shinpachi, and
4	3 Shingeki no Kyojin Season 3 Part 2	9.09	https://myanimelist.net/anime/38524/Shingeki_no_Kyojin_Season_3_Part_2	https://cdn.myanimelist.net/images/anime/1517/38524.jpg	10	29-Apr-19 to 1-Jul-19	Action, Drama, Fantasy, Mystery, Military, Super Power, Shounen	Seeking to restore humanity
5	4 Steins;Gate	9.09	https://myanimelist.net/anime/9253/Steins_Gate	https://cdn.myanimelist.net/images/anime/5/7315.jpg	24	6-Apr-11 to 14-Sep-11	Drama, Sci-Fi, Suspense, Psychological	The self-proclaimed mad
6	5 Fruits Basket: The Final	9.07	https://myanimelist.net/anime/42938/Fruits_Basket__The_Final	https://cdn.myanimelist.net/images/anime/1085/42938.jpg	13	6-Apr-21 to 29-Jun-21	Comedy, Drama, Romance, Slice of Life, Supernatural, Shounjo	Hundreds of years ago
7	6 Gintama'	9.06	https://myanimelist.net/anime/9969/Gintama	https://cdn.myanimelist.net/images/anime/4/5036.jpg	51	4-Apr-11 to 26-Mar-12	Action, Comedy, Sci-Fi, Historical, Parody, Samurai, Shounen	After a one-year hiatus:
8	7 Hunter x Hunter (2011)	9.06	https://myanimelist.net/anime/11061/Hunter_x_Hunter_2011	https://cdn.myanimelist.net/images/anime/11/336.jpg	148	2-Oct-11 to 24-Sep-14	Action, Adventure, Fantasy, Super Power, Shounen	Hunter x Hunter is set
9	8 Ginga Eiyuu Densetsu	9.05	https://myanimelist.net/anime/820/Ginga_Eiyuu_Densetsu	https://cdn.myanimelist.net/images/anime/13/13.jpg	110	8-Jan-88 to 17-Mar-97	Drama, Sci-Fi, Military, Space	The 150-year-long story
10	9 Gintama': Enchousen	9.03	https://myanimelist.net/anime/15417/Gintama__Enchousen	https://cdn.myanimelist.net/images/anime/6/7517.jpg	13	4-Oct-12 to 28-Mar-13	Action, Comedy, Sci-Fi, Historical, Parody, Samurai, Shounen	While Gintoki Sakata is
11	10 Gintama: The Final	9	https://myanimelist.net/anime/39486/Gintama__The_Final	https://cdn.myanimelist.net/images/anime/1245/39486.jpg	1	8-Jan-21	Action, Comedy, Drama, Sci-Fi, Historical, Parody, Samurai, Shounen	New Gintama movie.

Webpage style

- We are keeping a similar style to myanimelist with slight changes
- They keep a simple setup and then include all the data on an individual web page for that anime
- They include more than the top 10 per page, but we will be showing only 10 results per page
- Not sure if we will include all data on the same page or do what myanimelist does.

Any advice?

Search Results				[1] 2 3 4	
	Title		Type ↕	Start Date ↕	
	Gyakuten Sekai no Denchi Shoujo add Japan, 2019, just before the dawn of a new era. Suddenly, a rift to another dimension appears in the sky, revealing an alternative world "Shinkoku Nippon," with the sky and the earth upside down. This... read more .		TV	10-11-21	
	Dou Shen Ji add At the end of the 21st century, the discovery of a new energy source called "DG energy" (short for "divine grace energy") has revolutionized Earth's economy and allowed humanity to colonize space. How... read more .		ONA	10-11-21	
	Bright: Samurai Soul add In the early years of Japan's Meiji Restoration, a human ronin must unite with an orc assassin to save an elf orphan from their common adversary. (Source: Netflix)		ONA	10-12-21	

Advanced search

- Myanimelist has an excellent advanced search feature.
- Ours will look extremely similar except for the data that we don't have such as status and type.

Users will use search bar for description based queries and advanced search for specific kinds of animes before their submission

The image shows a screenshot of the MyAnimeList advanced search interface. It features a sidebar with various filter categories and a main content area with a grid of genre checkboxes.

Filters

- Type: Select type ▾
- Score: Select score ▾
- Status: Select status ▾
- Producer: Select producer ▾
- Rated: Select rating ▾
- Start Date: 10 ▾ - 11 ▾ - 2021 ▾ mm-dd-yyyy
- End Date: - ▾ - - ▾ - - ▾ mm-dd-yyyy
- Columns: Type, Eps, Score, Start Date, End Date

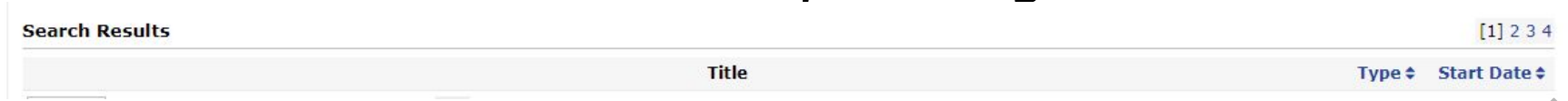
Content Filter [More Info](#)

Include selected ▾

Genres

<input type="checkbox"/> Action	<input checked="" type="checkbox"/> Adventure	<input type="checkbox"/> Avant Garde	<input type="checkbox"/> Award Winning	<input type="checkbox"/> Boys Love	<input type="checkbox"/> Comedy	<input type="checkbox"/> Drama	<input type="checkbox"/> Fantasy
<input type="checkbox"/> Girls Love	<input type="checkbox"/> Gourmet	<input type="checkbox"/> Horror	<input type="checkbox"/> Mystery	<input type="checkbox"/> Romance	<input type="checkbox"/> Sci-Fi	<input type="checkbox"/> Slice of Life	<input type="checkbox"/> Sports
<input type="checkbox"/> Supernatural	<input type="checkbox"/> Suspense	<input type="checkbox"/> Work Life					

Data filtering



The screenshot shows a web interface for search results. At the top left is the text 'Search Results'. At the top right is a pagination link '[1] 2 3 4'. Below these is a table header with three columns: 'Title', 'Type', and 'Start Date'. Each of the last two column headers has a small downward-pointing arrow next to it, indicating they are clickable for sorting. A large grey arrow points from the 'Start Date' header down towards the bulleted text below.


Title	Type	Start Date
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- Similar to advanced search but applied after search
- Allow user to prioritize the kind of data they want to see first
- As shown above, a user can click on Start Date and the data will be filtered to show the anime in time ascending/descending
- Other attributes like “anime’s rating” and “episode count” will also be included in filtering
- Data can be ordered newest to oldest or oldest to newest interchangeably on all three filterable data types

Front End

- Front end, will be created using html and css(possibly bootstrap)
- Features like Advanced search and Result filtering, their ports will be integrated with UI

Anime search



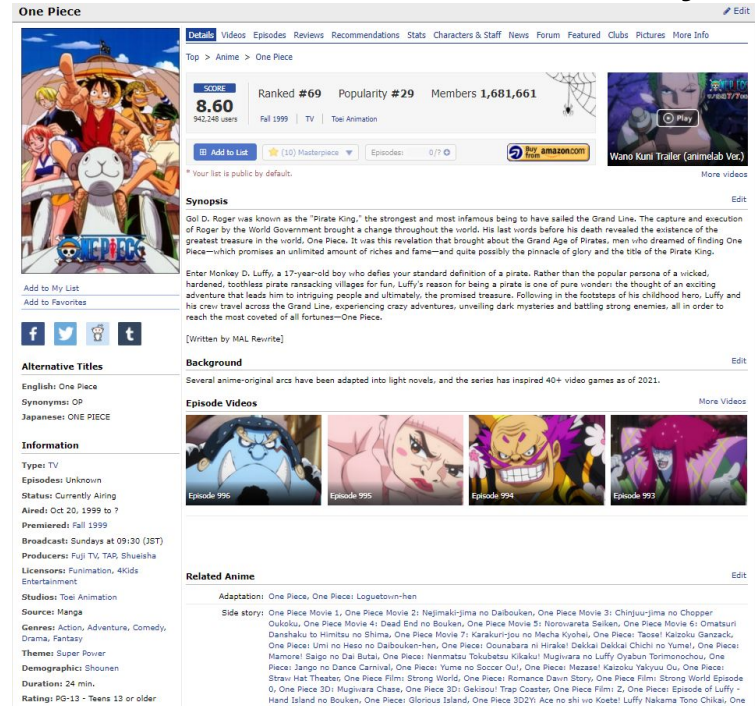
[Advanced Search](#)

Genres

Action (4,048)	Adventure (3,117)	Avant Garde (548)	Award Winning (3)	Boys Love (146)
Comedy (6,335)	Drama (2,706)	Fantasy (3,520)	Girls Love (115)	Gourmet (101)
Horror (476)	Mystery (756)	Romance (1,971)	Sci-Fi (2,675)	Slice of Life (2,039)
Sports (743)	Supernatural (1,536)	Suspense (148)	Work Life (2)	

Front End - Page Holder

- Once a user clicks on an anime they would like to see information on they will be taken to a separate page
- All anime will be formatted using a placeholder page which is then populated with the anime information.
- The format will be similar to this, with a lot less information because we simply didn't scrape it all.



The screenshot shows the MyAnimeList page for the anime One Piece. The page layout includes a header with navigation tabs (Details, Videos, Episodes, Reviews, Recommendations, Stats, Characters & Staff, News, Forum, Featured, Clubs, Pictures, More Info). Below the header, there's a main content area with a large character image on the left and a sidebar on the right. The sidebar contains a score of 8.60, ranked #69, popularity #29, and 1,681,661 members. It also features a 'Add to List' button, a 'Masterpiece' badge, and a 'Watch on Amazon' button. The main content area has a synopsis, background information, episode videos, and related anime. The synopsis describes the story of Luffy, a 17-year-old boy who defies the standard definition of a pirate. The background section mentions that several anime-original arcs have been adapted into light novels. The episode videos section shows a grid of episode thumbnails. The related anime section lists various adaptations and side stories.

One Piece Edit

Details Videos Episodes Reviews Recommendations Stats Characters & Staff News Forum Featured Clubs Pictures More Info

Top > Anime > One Piece

SCORE
8.60
942,248 users

Ranked #69 Popularity #29 Members 1,681,661

Fall 1999 TV Toei Animation

[Add to List](#) [\(10\) Masterpiece](#) Episodes: 0/7 [Watch on Amazon](#)

* Your list is public by default.

Synopsis Edit

Gol D. Roger was known as the "Pirate King," the strongest and most infamous being to have sailed the Grand Line. The capture and execution of Roger by the World Government brought a change throughout the world. His last words before his death revealed the existence of the greatest treasure in the world, One Piece. It was this revelation that brought about the Grand Age of Pirates, men who dreamed of finding One Piece—which promises an unlimited amount of riches and fame—and quite possibly the pinnacle of glory and the title of the Pirate King.

Enter Monkey D. Luffy, a 17-year-old boy who defies your standard definition of a pirate. Rather than the popular persona of a wicked, hardened, toothless pirate ransacking villages for fun, Luffy's reason for being a pirate is one of pure wonder: the thought of an exciting adventure that leads him to intriguing people and ultimately, the promised treasure. Following in the footsteps of his childhood hero, Luffy and his crew travel across the Grand Line, experiencing crazy adventures, unveiling dark mysteries and battling strong enemies, all in order to reach the most coveted of all fortunes—One Piece.

[Written by MAL Rewrite]

Background Edit

Several anime-original arcs have been adapted into light novels, and the series has inspired 40+ video games as of 2021.

Episode Videos More Videos

Episode 996 Episode 995 Episode 994 Episode 993

Related Anime Edit

Adaptation: One Piece, One Piece: Loguetown-hen

Side story: One Piece Movie 1: One Piece Movie 2: Nejimaki-jima no Daibouken, One Piece Movie 3: Chiranjiru-jima no Chopper Oukoku, One Piece Movie 4: Dead End no Bouken, One Piece Movie 5: Honoikazaru Tenshi, One Piece Movie 6: Omatsuri Danshaku to Himitsu no Shima, One Piece Movie 7: Karakuri-jima no Machi Kiyoshi, One Piece: Tensei! Katzoji Gansaku, One Piece: Umi no Heso no Daibouken-hen, One Piece: Oounabara ni Hirake! Dekai! Dekai! Chichi no Yume!, One Piece: Mamore! Saigo no Dai Butai, One Piece: Nematusu Tokubetsu Kikaku! Mugiwara no Luffy Oyabun Tormonochou, One Piece: Jango no Dance Carnival, One Piece: Yume no Soccer Ou!, One Piece: Hazzari Katzoji Yakyuu Ou, One Piece: Straw Hat Theater, One Piece Film: Strong World, One Piece: Romance Dawn Story, One Piece Film: Strong World Episode 0, One Piece 3D: Mugiwara Chase, One Piece 3D: Gekidou! Trap Coaster, One Piece Film: Z, One Piece: Episode of Luffy - Hand Island no Bouken, One Piece: Glorious Island, One Piece 3D: Ace no shi wo Koete! Luffy Nakama Tono Chikai, One

Front End - Api

- Python has a framework “Flask” for building web applications
- It’s a lightweight framework; suitable for this project since we scraped much less data compared to myanimelist; need a quick and easy setup for front end.

Flask 2.0.2

```
pip install Flask
```

Front End - Design intent

- The structure is similar to HTML+CSS+JS
- Templates contains main html files
- Static folder stores style files and sources like images(for buttons).
- Api.py file will link the python codes and html, performs “get and post” actions

