

# Sprint-6 Artifact

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## Features to implement in next sprint:

- Add genre and studio edit bars on the modify page.
- **Feature 1 (Incremental Analytics):** Apply the incremental analytics for “Top 100 Most Popular Anime from Genre.”
- **Feature 2 (Incremental Analytics):** Apply the incremental analytics for “Top 100 Most Popular Anime from Type.”
- Optimize the output table presentation over the next few weeks.

## GUI Design:

- **Feature 1 Analytics:**

### Before Adding an Action Anime of Score 10

	Name	Score	Genres	English name	Japanese name	Type	Episodes	Studios	Duration	Rating
	Fullmetal Alchemist: Brotherhood	9.19	Action Military Adventure Comedy Drama Magic Fantasy Shounen	Fullmetal Alchemist Brotherhood	鋼の錬金術師 FULLMETAL ALCHEMIST	TV	64	Bones	24 min. per ep.	R - 17+ (violence & profanity)
	Shingeki no Kyojin: The Final Season	9.17	Action Military Mystery Super Power Drama Fantasy Shounen	Attack on Titan Final Season	進撃の巨人 The Final Season	TV	16	MAPPA	23 min. per ep.	R - 17+ (violence & profanity)
	Hunter x Hunter (2011)	9.1	Action Adventure Fantasy Shounen Super Power	Hunter x Hunter	HUNTER×HUNTER (ハンター×ハンター)	TV	148	Madhouse	23 min. per ep.	PG-13 - Teens 13 or older
	Gintama*	9.1	Action Comedy Historical Parody Samurai Sci-Fi Shounen	Gintama Season 4	銀魂*	TV	51	Bandai Namco Pictures	24 min. per ep.	PG-13 - Teens 13 or older
	Shingeki no Kyojin Season 3 Part 2	9.1	Action Drama Fantasy Military Mystery Shounen Super Power	Attack on Titan Season 3 Part 2	進撃の巨人 Season3 Part 2	TV	10	WIT Studio	23 min. per ep.	R - 17+ (violence & profanity)
	Gintama*	9.08	Action Sci-Fi Comedy Historical Parody Samurai Shounen	Gintama Season 2	銀魂	TV	51	Sunrise	24 min. per ep.	PG-13 - Teens 13 or older
	Gintama* Enchousen	9.04	Action Comedy Historical Parody Samurai Sci-Fi Shounen	Gintama Enchousen	銀魂 延長戦	TV	13	Sunrise	24 min. per ep.	PG-13 - Teens 13 or older
	Gintama	8.99	Action Comedy Historical Parody Samurai Sci-Fi Shounen	Gintama Season 5	銀魂	TV	12	Bandai Namco Pictures	24 min. per ep.	PG-13 - Teens 13 or older
	Gintama	8.96	Action Comedy Historical Parody Samurai Sci-Fi Shounen	Gintama	銀魂	TV	201	Sunrise	24 min. per ep.	PG-13 - Teens 13 or older
	Gintama Movie 2: Kanketsu-hen - Yorozuya yo Eien Nare	8.96	Action Sci-Fi Comedy Historical Parody Samurai Shounen	Unknown	劇場版 銀魂 究極篇 万事屋よ永遠なれ	Movie	1	Sunrise	1 hr. 50 min.	PG-13 - Teens 13 or older

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## After Adding an Action Anime of Score 10

	Name	Score	Genres	English name	Japanese name	Type	Episodes	Studios	Duration	Rating
	Sea Cream	10	Action			TV	10		24 min. per ep.	R - 17+ (violence & profanity)
	Fullmetal Alchemist: Brotherhood	9.19	Action Military Adventure Comedy Drama Magic Fantasy Shounen	Fullmetal Alchemist: Brotherhood	鋼の錬金術師 FULLMETAL ALCHEMIST	TV	64	Bones	24 min. per ep.	R - 17+ (violence & profanity)
	Shingeki no Kyojin: The Final Season	9.17	Action Military Mystery Super Power Drama Fantasy Shounen	Attack on Titan Final Season	進撃の巨人 The Final Season	TV	16	MAPPA	23 min. per ep.	R - 17+ (violence & profanity)
	Hunter x Hunter (2011)	9.1	Action Adventure Fantasy Shounen Super Power	Hunter x Hunter	HUNTER×HUNTER (ハンター×ハンター)	TV	148	Madhouse	23 min. per ep.	PG-13 - Teens 13 or older
	Gintama*	9.1	Action Comedy Historical Parody Samurai Sci-Fi Shounen	Gintama Season 4	銀魂*	TV	51	Bandai Namco Pictures	24 min. per ep.	PG-13 - Teens 13 or older
	Shingeki no Kyojin Season 3 Part 2	9.1	Action Drama Fantasy Military Mystery Shounen Super Power	Attack on Titan Season 3 Part 2	進撃の巨人 Season3 Part 2	TV	10	Wit Studio	23 min. per ep.	R - 17+ (violence & profanity)
	Gintama*	9.08	Action Sci-Fi Comedy Historical Parody Samurai Shounen	Gintama Season 2	銀魂	TV	51	Sunrise	24 min. per ep.	PG-13 - Teens 13 or older
	Gintama*: Enchousen	9.04	Action Comedy Historical Parody Samurai Sci-Fi Shounen	Gintama Enchousen	銀魂 延長戦	TV	13	Sunrise	24 min. per ep.	PG-13 - Teens 13 or older
	Gintama.	8.99	Action Comedy Historical Parody Samurai Sci-Fi Shounen	Gintama Season 5	銀魂.	TV	12	Bandai Namco Pictures	24 min. per ep.	PG-13 - Teens 13 or older

### ● Feature 2 Analytics:

## Before Adding TV Anime of Score 10

	Name	Score	Genres	English name	Japanese name	Type	Episodes	Studios	Duration	Rating
	Fullmetal Alchemist: Brotherhood	9.19	Action Military Adventure Comedy Drama Magic Fantasy Shounen	Fullmetal Alchemist: Brotherhood	鋼の錬金術師 FULLMETAL ALCHEMIST	TV	64	Bones	24 min. per ep.	R - 17+ (violence & profanity)
	Shingeki no Kyojin: The Final Season	9.17	Action Military Mystery Super Power Drama Fantasy Shounen	Attack on Titan Final Season	進撃の巨人 The Final Season	TV	16	MAPPA	23 min. per ep.	R - 17+ (violence & profanity)
	Hunter x Hunter (2011)	9.1	Action Adventure Fantasy Shounen Super Power	Hunter x Hunter	HUNTER×HUNTER (ハンター×ハンター)	TV	148	Madhouse	23 min. per ep.	PG-13 - Teens 13 or older
	Gintama*	9.1	Action Comedy Historical Parody Samurai Sci-Fi Shounen	Gintama Season 4	銀魂*	TV	51	Bandai Namco Pictures	24 min. per ep.	PG-13 - Teens 13 or older
	Shingeki no Kyojin Season 3 Part 2	9.1	Action Drama Fantasy Military Mystery Shounen Super Power	Attack on Titan Season 3 Part 2	進撃の巨人 Season3 Part 2	TV	10	Wit Studio	23 min. per ep.	R - 17+ (violence & profanity)
	Gintama*	9.08	Action Sci-Fi Comedy Historical Parody Samurai Shounen	Gintama Season 2	銀魂	TV	51	Sunrise	24 min. per ep.	PG-13 - Teens 13 or older
	Gintama*: Enchousen	9.04	Action Comedy Historical Parody Samurai Sci-Fi Shounen	Gintama Enchousen	銀魂 延長戦	TV	13	Sunrise	24 min. per ep.	PG-13 - Teens 13 or older
	Gintama.	8.99	Action Comedy Historical Parody Samurai Sci-Fi Shounen	Gintama Season 5	銀魂.	TV	12	Bandai Namco Pictures	24 min. per ep.	PG-13 - Teens 13 or older
	Gintama	8.96	Action Comedy Historical Parody Samurai Sci-Fi Shounen	Gintama	銀魂	TV	201	Sunrise	24 min. per ep.	PG-13 - Teens 13 or older
	Gintama Movie 2: Kanketsu-hen - Yorozuya yo Eien Nare	8.96	Action Sci-Fi Comedy Historical Parody Samurai Shounen	Unknown	劇場版 銀魂 究極篇 万事屋よ永遠なれ	Movie	1	Sunrise	1 hr. 50 min.	PG-13 - Teens 13 or older

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## After Adding TV Anime of Score 10

	Name	Score	Genres	English name	Japanese name	Type	Episodes	Studios	Duration	Rating
	Sea Cream	10	Action			TV	10		24 min. per ep.	R - 17+ (violence & profanity)
	Fullmetal Alchemist: Brotherhood	9.19	Action Military Adventure Comedy Drama Magic Fantasy Shounen	Fullmetal Alchemist Brotherhood	鋼の錬金術師 FULLMETAL ALCHEMIST	TV	64	Bones	24 min. per ep.	R - 17+ (violence & profanity)
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	Gintama*	9.1	Action Comedy Historical Parody Samurai Sci-Fi Shounen	Gintama Season 4	銀魂*	TV	51	Bandai Namco Pictures	24 min. per ep.	PG-13 - Teens 13 or older
	Shingeki no Kyojin Season 3 Part 2	9.1	Action Drama Fantasy Military Mystery Shounen Super Power	Attack on Titan Season 3 Part 2	進撃の巨人 Season3 Part2	TV	10	Wit Studio	23 min. per ep.	R - 17+ (violence & profanity)
	Gintama†	9.08	Action Sci-Fi Comedy Historical Parody Samurai Shounen	Gintama Season 2	銀魂†	TV	51	Sunrise	24 min. per ep.	PG-13 - Teens 13 or older
	Gintama†: Enchousen	9.04	Action Comedy Historical Parody Samurai Sci-Fi Shounen	Gintama Enchousen	銀魂 延長戦	TV	13	Sunrise	24 min. per ep.	PG-13 - Teens 13 or older
	Gintama.	8.99	Action Comedy Historical Parody Samurai Sci-Fi	Gintama Season 5	銀魂.	TV	12	Bandai Namco Pictures	24 min. per ep.	PG-13 - Teens 13 or older

## User Test Cases

- **Feature 1 Test Cases:** As a user, I added a new anime into the database and I want to know how the top 100 most popular anime from the selected genre changes.
  - **Test case 1:** As a user in the analytics page, I view the current average duration for the top 100 most popular anime from the selected genre changes.
    - Correct Output: The website displays a table with the top 100 most popular anime from the selected genre.
    - Correct Output: The website displays the runtime it took to generate this data.
  - **Test case 2:** As a user, I move to the modify page where I add/delete an anime.
    - Correct Output: The website adds/deletes the anime to/from the local data.
    - Correct Output: The website says that the anime was successfully added/deleted.
  - **Test case 3:** As a user, I go back to the analytics page after adding/deleting an anime.
    - Correct Output: The website displays a modified table showing the top 100 most popular anime from the selected genre based on the changes.

- Correct Output: The website displays the runtime it took to generate this data.
- **Feature 2 Test Cases**: As a user, I added a new anime into the database and I want to know how the top 100 most popular anime from the selected type changes.
  - **Test case 1**: As a user in the analytics page, I view the current average duration for the top 100 most popular anime from the selected type changes.
    - Correct Output: The website displays a table with the top 100 most popular anime from the selected type.
    - Correct Output: The website displays the runtime it took to generate this data.
  - **Test case 2**: As a user, I move to the modify page where I add/delete an anime.
    - Correct Output: The website adds/deletes the anime to/from the local data.
    - Correct Output: The website says that the anime was successfully added/deleted.
  - **Test case 3**: As a user, I go back to the analytics page after adding/deleting an anime.
    - Correct Output: The website displays a modified table showing the top 100 most popular anime from the selected type based on the changes.
    - Correct Output: The website displays the runtime it took to generate this data.

- **TODO List**

**Done list of last sprint:**

- Optimize the output table presentation.
  - [finished by James Ooi and verified by everyone]
- Finish linking Feature 1 frontend and backend.
  - [finished by Yuteng Wu and verified by everyone]
- Finish linking Feature 2 frontend and backend.
  - [finished by Yuteng Wu and verified by everyone]
- Finish linking Feature 3 frontend and backend.
  - [finished by Yuteng Wu and verified by everyone]
- Finish linking Feature 6 frontend and backend.
  - [finished by Yuteng Wu and verified by everyone]

- Changed Feature 3 to show all genres in a bar graph
  - [finished by Michelle Chu and verified by everyone]

**ToDo task list for the next sprint:**

- Modify Feature 3 redirect to new page (Optional)
- Add genre and studio edit bars on the modify page.
- **Feature 1(Incremental Analytics):** Apply the incremental analytics for “Top 100 Most Popular Anime from Genre.”
- **Feature 2 (Incremental Analytics):** Apply the incremental analytics for “Top 100 Most Popular Anime from Type.”
- Optimize the output table presentation over the next few weeks.