Artifact 5

Feature:
- Additional features since we choose option 2
  - Average budget by genre (New)
  - Average rating by genre (New)
  - Average revenue by genre (New)

GUI design and User test cases:
- for testing the analytics

Taskboard:
- Done list of last sprint
- ToDo task list for the next sprint

Features (user stories) to implement in next sprint:
- **Feature 1:** As a user, I would like to interact with the most popular movies for a certain genre analytic.
  - Allow front-end instances of a sort from highest rated movie to lowest.
- **Feature 2:** As a user, I would like to interact with correlation between budget and revenue analytic.
  - Allow front-end interactions with the scatter plot between budget and revenue.
- **Feature 3:** As a user, I would like to interact with the most popular keywords.
  - Allow front-end interaction with the bar graph so that users can click on it and it does something
- **Feature 4:** As a user, I would like to interact with the most popular times to release movies by month(?)
  - Allow front-end interaction with the bar graph so that users can click on it and it does something
- **Feature 5:** As a user, I would like to interact with the correlation between movie ratings and the number of languages it is released in.
  - Allow front-end interaction that outputs some sort of statistical analysis to the user.
- **Feature 6 (NEW ADDITIONS):** As a user I would like to interact with the average budget per genre analytic.
  - Allow front-end instances/interactions to sort from highest to lowest average budget.
- **Feature 7 (NEW ADDITIONS):** As a user I would like to interact with the average budget per genre analytic.
  - Allow front-end instances/interactions to sort from highest to lowest average rating.

- **Feature 8 (NEW ADDITIONS):** As a user I would like to interact with the average revenue per genre analytic.
  - Allow front-end instances/interactions to sort from highest to lowest average revenue.

Test Cases
- **Feature 1 Test Cases:** As a user, I would like to interact with a data visualization of what the most genres are.
  - **Test Case 1:** As a user, on the most popular genres graph, I can click on certain bars displaying the number of movies that fall under a particular genre.
    - Correct Output: A list of movies in that genre are outputted to the user.
- **Feature 2:** As a user, I would like to interact with the correlation between movie budget and revenue.
  - **Test Case 1:** As a user, on the Correlation Between Budget and Revenue page, I click on the analytics button.
    - Correct Output: An explanation of the correlation is outputted to the user in a small paragraph.
- **Feature 3 Test Cases:** As a user, I would like to interact with a data visualization the most popular actors/actresses based on movie appearance
  - **Test Case 1:** As a user, on the Most Popular Actors/Actresses page, I press on one bar representing an actor/actress.
    - Correct Output: A list of movies that features that actor is output to the user.
- **Feature 4 Test Cases:** As a user, I would like to interact with the most popular keywords.
  - **Test Case 1:** As a user, on the most popular keywords graph, I can click on certain bars displaying the number of times certain keywords are mentioned.
    - Correct Output: A list of movies that include those keywords are outputted to the user.
- **Feature 5 Test Cases:** As a user, I would like to interact with a data visualization of the most popular times to release movies by month(?)
  - **Test Case 1:** As a user, on the Movie Releases by Month bar graph, I can click on a bar that represents a month.
    - Correct Output: A list of movies released in that month are outputted to the user.
- **Feature 6 Test Cases:** As a user, I would like to interact with the correlation between movie ratings and the number of languages it is released in.
  - **Test Case 1:** As a user, on the Correlation Between Ratings and Languages page, I click on the analytics button.

- **Correct Output:** An explanation of the correlation is outputted to the user in a small paragraph.
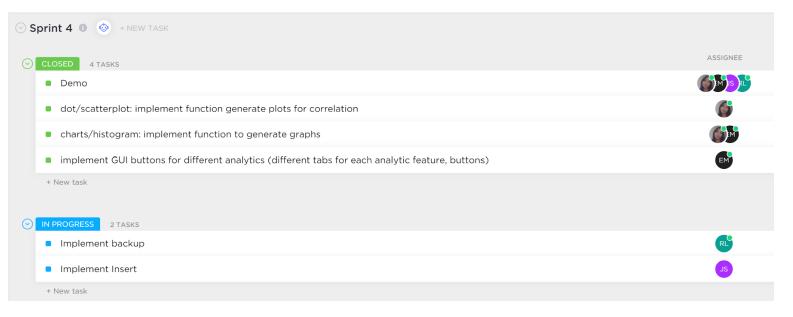
GUI

Task Board
- **Done list of last sprint** → Sprint 4: (SK: Selma, EM: Emily, JS: Jihad, RL: Ricardo, BV: Briana(dropped))
  - Artifact 4 (all of us)
  - Implement function to create dot/scatterplot: Selma
  - Implement function to create chart/histogram: Selma, Emily
  - Implement GUI buttons and tabs for the analytics: Emily

○ Create demo (all of us)

- **ToDo task list of next sprint** → Sprint 5:   (SK: Selma, EM: Emily, JS: Jihad, RL: Ricardo)
    ○ Import (code + GUI linking): Ricardo
    ○ Backup: linking and testing: Ricardo
    ○ Insert (code + GUI linking): Jihad
    ○ GUI: correlation analytic interactions: Jihad
    ○ GUI: average analytic interactions: Ricardo