Artifact 4

Feature:

- analytics to implement

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:

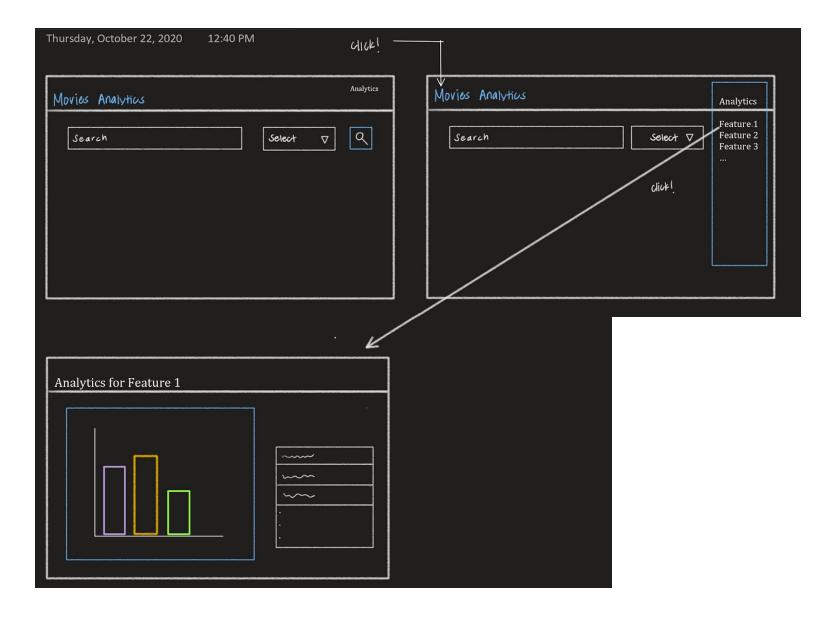
- **Feature 1:** As a user, I would like to find what the most popular movies for a certain genre?
 - Iterate through the "genre" attribute in the dataframe and create a list of movies for each genre in the dataframe.
 - Sort each list from highest rated movie to lowest.
- **Feature 2:** As a user, I would like to find a correlation between movie budget and revenue(?)
 - Iterate through "budget" and "revenue" in dataframe
 - Output to user data visualization
 - Scatter Plot
 - Budget on x axis, revenue on y axis
- **Feature 3:** As a user, I would like to find most popular actors/actresses based on movie appearance(?)
 - Iterate through "cast" attribute in the dataframe and create a list of all actors and how many times they appear
 - Output: Graph top 10 actors and how many movies they appeared in
- **Feature 4:** As a user, I would like to find what the most popular movie plot keywords are(?)
 - Iterate through "keyword" attribute in the dataframe
 - Create a list of all keywords and increment count based on how many times they appear
 - Output to user top % of keywords
 - Data visualization:
 - Bar graph with keywords on x axis and frequency on y axis in descending order
- **Feature 5:** As a user, I would like to find the most popular times to release movies by month(?)
 - Iterate through "release date" attribute in the dataframe
 - Create a list of months and increment number of movies released each month

- Output to user data visualization
 - Months in x axis, number of movies released in y axis
- **Feature 6:** As a user, I would like to find a correlation between movie votes and the number of languages it is released in(?)
 - Scatterplot, dot plot
 - Iterate through "movie votes" and "languages" in dataframe
 - Output to user data visualization
 - Scatter Plot
 - Number of languages on x axis, movie votes on y axis

Test Cases

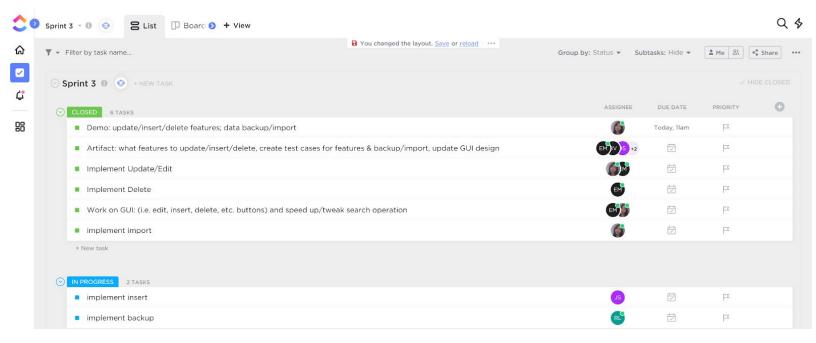
- **Feature 1 Test Cases:** As a user, I would like to see a data visualization of what the most genres are?
 - Test Case 1: As a user, on the homepage, I click on the analytics button.
 Correct Output: A drop down menu of analytics to choose from is displayed to the user.
 - Test Case 2: As a user, I choose "Most popular genres"
 Correct Output: A bar chart/histogram of movies sorted by highest rating based upon genre is displayed.
- **Feature 2:** As a user, I would like to find a correlation between movie budget and revenue(?)
 - Test Case 1: As a user, on the homepage, I click on the analytics button.
 Correct Output: A drop down menu of analytics to choose from is displayed to the user.
 - Test Case 2: As a user, I choose "Correlation between movie budget and revenue"
 - <u>Correct Output:</u> A scatter plot showing the correlation between budget and revenue is displayed.
- **Feature 3 Test Cases:** As a user, I would like to see a data visualization the most popular actors/actresses based on movie appearance
 - Test Case 1: As a user, on the homepage, I click on the analytics button.
 - <u>Correct Output:</u> A drop down menu of analytics to choose from is displayed to the user.
 - Test Case 2: As a user, I select "Most Popular Actors/Actresses"
 - Correct Output: A bar graph with actor/actress names on x axis and number of movie appearances on y axis in descending order is displayed to the user

- **Feature 4 Test Cases:** As a user, I would like to see a data visualization of the most popular movie plot keywords are(?) (show top 5/10?)
 - Test Case 1: As a user, on the homepage, I click on the analytics button.
 - Correct Output: A drop down menu of analytics to choose from is displayed to the user.
 - Test Case 2: As a user, I select "Most Popular Plot Keywords"
 - Correct Output: A bar graph with keywords on x axis and frequency on y axis in descending order is displayed to the user
- **Feature 5 Test Cases:** As a user, I would like to see a data visualization of the most popular times to release movies by month(?)
 - **Test Case 1:** As a user, on the homepage, I click on the analytics button.
 - Correct Output: A drop down menu of analytics to choose from is displayed to the user.
 - Test Case 2: As a user, I select "Most Popular Release Times by Month"
 - Correct Output: A bar graph with months in x axis and number of movies released in y axis is displayed to the user
- **Feature 6 Test Cases:** As a user, I would like to find a correlation between movie votes and the number of languages it is released in(?)
 - Test Case 1: As a user, on the homepage, I click on the analytics button.
 - Correct Output: A drop down menu of analytics to choose from is displayed to the user.
 - Test Case 2: As a user, I select "Correlation Between Movie Votes and Released Languages"
 - <u>Correct Output:</u> A scatter plot with the number of languages on x axis, movie votes on y axis is displayed to the user.



Task Board

- **Done list of last sprint** → Sprint 3: (SK: Selma, EM: Emily, JS: Jihad, RL: Ricardo, BV: Briana(dropped))
 - Demo: SelmaArtifact: All of us
 - o Implement Update/Edit: Emily and Selma
 - o Implement Delete: Emily
 - o Work on GUI: Emily and Selma
 - o Implement import(need to fix): Selma and Emily



- ToDo task list of next sprint → Sprint 4: (SK: Selma, EM: Emily, JS: Jihad, RL: Ricardo)
 - o Artifact 4 (all of us)
 - o Implement function to create dot/scatterplot: Selma and Ricardo
 - o Implement function to create chart/histogram: Selma
 - o Implement function to test for correlation: Emily
 - o Implement GUI buttons and tabs for the analytics: Emily
 - Finish implementing Insert (Jihad)
 - Finish implementing backup (Ricardo)
 - Create demo (all of us)

