

## Artifact 6

Feature:

- Features to adding incrementality

GUI design and User test cases:

- for testing the analytics

Taskboard:

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

Incremental Analytics & Test Cases:

- **Analytic 1:** Average Revenue
- **Analytic 2:** Average Rating
- **Analytic 3:** Average Budget
- **Analytic 4:** Popular Movies
- **Analytic 5:** Popular Keywords
- **Analytic 6:** Popular Release Time (?)
- **Calculating Averages**
  - **Test Case 1:** When I update/edit data, I want to make sure that the changes are updated on the frontend and reflected in the analytics.
    - Correct Output 1: Return the table and edits should be reflected in the table.
    - Correct Output 2: When the analytic (i.e. graph) is checked it should reflect the most recent changes
  - **Test Case 2:** When I make a deletion, I want to make sure that the changes are updated on the frontend
    - Correct Output: The table should reflect the deletion and that deleted row should be gone.
    - Correct Output 2: When the analytic (i.e. graph) is checked it should reflect the most recent delete.
  - **Test Case 3:** When I make a insertion, I want to make sure that the changes are updated on the frontend
    - Correct Output 1: When the analytic (i.e. graph) is checked it should reflect the most recent insert.
    - Correct Output 2: When searched, you should be able to see the newly inserted row.
  - **Test Case 4:** I want to make sure that incremental analytics is more efficient when I insert/update/delete.
    - Correct Output: The first instance of the app, through the backend runtimes for the analytic and the incremental analytic should be printed.

After an edit, through the backend, you should be able to see the runtime for the incremental analytic and it should be significantly faster.

- **Calculating Superlatives**

- **Test Case 1:** When I update/edit data, I want to make sure that the changes are updated on the frontend and reflected in the analytics.
  - Correct Output 1: Return the table and edits should be reflected in the table.
  - Correct Output 2: When the analytic (i.e. graph) is checked it should reflect the most recent changes
- **Test Case 2:** When I make a deletion, I want to make sure that the changes are updated on the frontend
  - Correct Output: The table should reflect the deletion and that deleted row should be gone.
  - Correct Output 2: When the analytic (i.e. graph) is checked it should reflect the most recent delete.
- **Test Case 3:** When I make a insertion, I want to make sure that the changes are updated on the frontend
  - Correct Output 1: When the analytic (i.e. graph) is checked it should reflect the most recent insert.
  - Correct Output 2: When searched, you should be able to see the newly inserted row.
- **Test Case 4:** I want to make sure that incremental analytics is more efficient when I insert/update/delete.
  - Correct Output: The first instance of the app, through the backend runtimes for the analytic and the incremental analytic should be printed. After an edit, through the backend, you should be able to see the runtime for the incremental analytic and it should be significantly faster.

Features (user stories) to implement in next sprint:

- **Feature 1:** As a user, I would like to interact with the correlation between rating and budget analytic.
  - Allow the user to interact with the scatterplot through a budget range slide bar that filters movies based upon a given budget range.
- **Feature 2:** As a user, I would like to interact with the correlation between rating and revenue analytic.
  - Allow the user to interact with the scatterplot through a revenue range slide bar that filters movies based upon a given revenue range
- **Feature 3 :** As a user, I would like to interact with correlation between budget and revenue analytic.

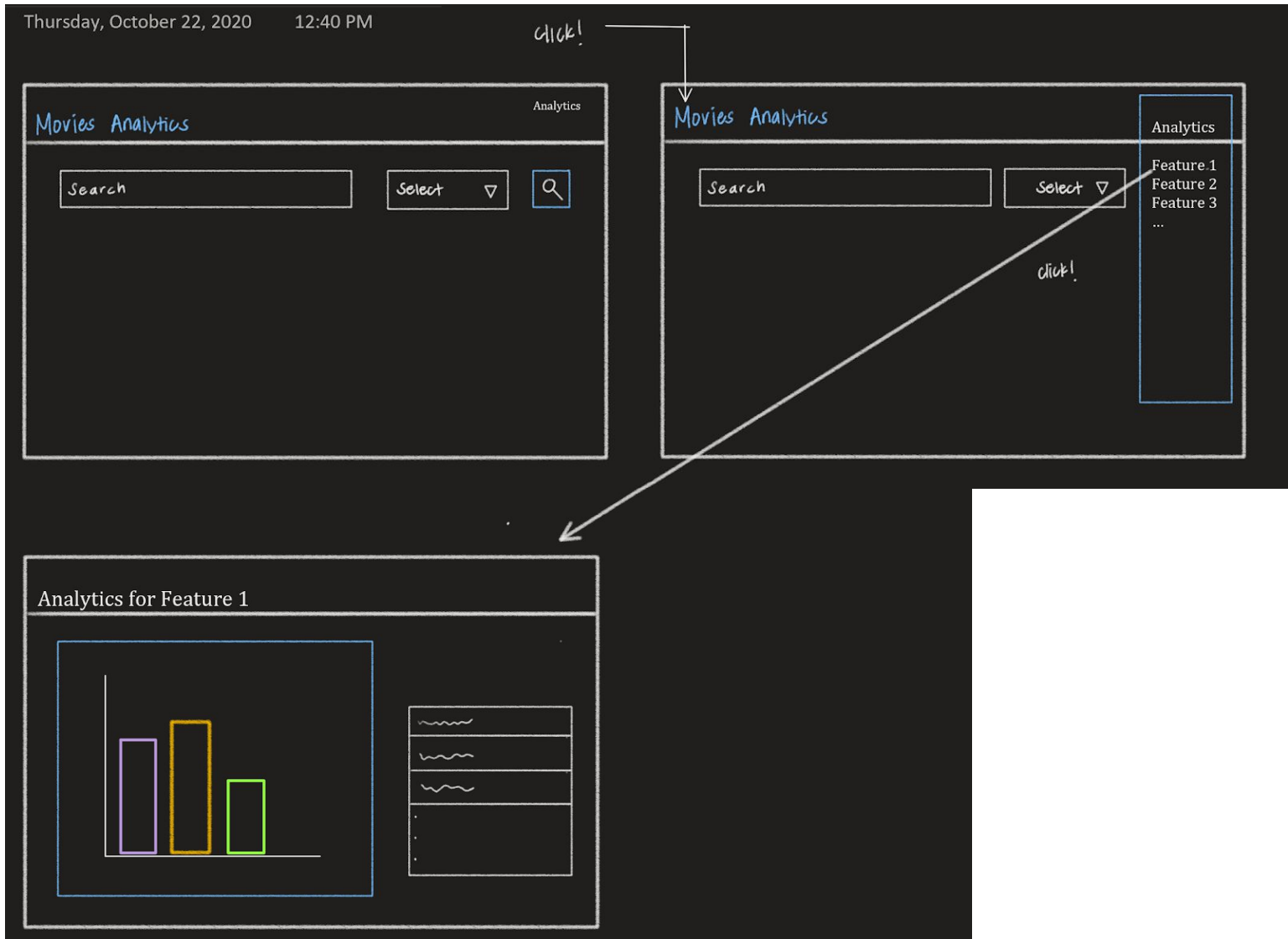
- Allow the user to interact with the scatterplot through a budget range slide bar that filters movies based upon a given budget range
- **Feature 4:** As a user, I would like to interact with the correlation between rating and movie release time analytic.
  - Allow the user to choose to display the correlation as a either a scatter plot or a linear plot.
- **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 the user to choose to display the correlation as either a scatter plot or a linear plot.
- **Feature 6:** 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:** 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.
- **Feature 8:** As a user I would like to interact with the average rating per genre analytic.
  - Allow front-end instances/interactions to sort from highest to lowest average revenue.

#### Test Cases

- **Feature 1:** As a user, I would like to interact with the correlation between rating and budget analytic.
  - **Test Case 1:** As a user, on the Correlation Between Rating and Budget page, I click and drag on the slider cursors to set a budget range.
    - Correct Output: An updated scatter plot graph is displayed filtered by the chosen budget range.
- **Feature 2:** As a user, I would like to interact with the correlation between rating and revenue analytic.
  - **Test Case 1:** As a user, on the Correlation Between Rating and Revenue page, I click and drag on the slider cursors to set a revenue range.
    - Correct Output: An updated scatter plot graph is displayed filtered by the chosen revenue range.
- **Feature 3 :** As a user, I would like to interact with correlation between budget and revenue analytic.
  - **Test Case 1:** As a user, on the Correlation Between Revenue and Budget page, I click and drag on the slider cursors to set a budget range.
    - Correct Output: An updated scatter plot graph is displayed filtered by the chosen revenue range.

- **Feature 4:** As a user, I would like to interact with the correlation between rating and movie release time analytic.
  - **Test Case 1:** As a user, on the Correlation Between Rating and Release Time page, I toggle the “Linear” radio button option.
    - Correct Output: The graph is updated to be a linear plot graph.
  - **Test Case 2:** As a user, on the Correlation between Rating and Release Time page, I toggle the “Scatter” radio button option.
    - Correct Output: The graph is updated to be a scatter plot graph.
- **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.
  - **Test Case 1:** As a user, on the Correlation Between Popularity and Released Language page, I toggle the “Linear” radio button option.
    - Correct Output: The graph is updated to be a linear plot graph.
  - **Test Case 2:** As a user, on the Correlation Between Popularity and Released Language page, I toggle the “Scatter” radio button option.
    - Correct Output: The graph is updated to be a scatter plot graph.
- **Feature 6:** As a user I would like to interact with the average budget per genre analytic.
  - **Test Case 1:** As a user, I would like to sort the average budget per genre analytic by highest to lowest.
    - Correct Output: After clicking the sort button, the user will receive a new bar graph with the averages sorted from highest to lowest.
- **Feature 7:** As a user I would like to interact with the average revenue per genre analytic.
  - **Test Case 1:** As a user, I would like to sort the average revenue per genre analytic by highest to lowest.
    - Correct Output: After clicking the sort button, the user will receive a new bar graph with the averages sorted from highest to lowest.
- **Feature 8:** As a user I would like to interact with the average rating per genre analytic.
  - **Test Case 1:** As a user, I would like to sort the average rating per genre analytic by highest to lowest.
    - Correct Output: After clicking the sort button, the user will receive a new bar graph with the averages sorted from highest to lowest.

## GUI



## Task Board

- **Done list of last sprint** → Sprint 5: (SK: Selma, EM: Emily, JS: Jihad, RL: Ricardo, BV: Briana(dropped))
  - Artifact 4 (all of us)
  - Backup: linking and testing: Ricardo
  - Create demo (all of us)

Sprint 5 ⓘ + NEW TASK	
IN PROGRESS 5 TASKS	ASSIGNEE
■ Import (code + GUI linking)	RL
■ Backup: just linking and testing	RL
■ Insert	JS
■ GUI: correlation analytic interactions	JS
■ GUI: average analytic interactions	RL
+ New task	

- ToDo task list of next sprint → Sprint 6:** (SK: Selma, EM: Emily, JS: Jihad, RL: Ricardo)
  - Implement correlation analytic for release time: Selma
  - Create general function for superlative analytic: Emily
  - Incremental analytic for superlatives: Selma, Emily
  - Incremental analytic for average: Selma, Emily
  - Import (code + GUI linking): Ricardo
  - Insert (code + GUI linking): Jihad
  - GUI: correlation analytic interactions: Jihad
  - GUI: average analytic interactions: Ricardo

Sprint 6 ⓘ + NEW TASK	
IN PROGRESS 8 TASKS	ASSIGNEE
■ Implement the remaining correlation analytic for release time	
■ Create general function for superlative analytic	EM
■ incremental analytic for superlatives	EM
■ Incremental analytic for average	EM
■ Import (code + GUI linking)	RL
■ Insert	JS
■ GUI: correlation analytic interactions	JS
■ GUI: average analytic interactions	RL