Sprint 6

Team: Two Man Group

Features to implement in next sprint:

- Feature 1: As a user, the analytics will update faster if averages can be updated dynamically without re-summing the entire dataset (store sum, count, instead of average)
- Feature 2: As a user, the analytics will update faster if we only store the columns they use and can be updated easily (insert, edit, or delete)
- Feature 3: As a user, the analytics would benefit from data stores for faster update
- Feature 4: General code cleanup for better readability and maintainability
- Feature 5: Analytics data and chart are only updated if relevant dataset is modified

GUI Design

Test Cases

- Feature 1 Test Cases: As a user, the analytics will update faster if averages can be updated dynamically without re-summing the entire dataset (store sum, count, instead of average)
    - Test Case 1: All analytics that use averages load in using averages
      Correct Output: They load in at a faster time than before (can use our time metric to see if it improves or not)
- Feature 2 Test Cases: As a user, the analytics will update faster if we only store the columns they use and can be updated easily (insert, edit, or delete)
    - Test Case 1: All analytics load using the stored columns
      Correct Output: They load in at a faster time than before (can use our time metric to see if it improves or not)
- Feature 3 Test Cases: As a user, the analytics would benefit from data stores for faster update
    - Test Case 1: All analytics load in using data stores
      Correct Output: They load in at a faster time than before (can use our time metric to see if it improves or not)
- Feature 4 Test Cases: General code cleanup for better readability and maintainability
    - Test Case 1: The code should be more readable
      Correct Output: The code is more readable than the previous sprint
    - Test Case 2: The code should be better commented
      Correct Output: There are more useful comments
- Feature 5 Test Cases: Analytics data and chart are only updated if relevant dataset is modified
    - Test Case 1: An entry is (inserted, deleted, or edited) from a dataset
      Correct Output: Only the analytics that use that dataset are updated

DONE List

- Dropdown list for Price Distribution for Region (Andrew and Chris)

- Graph for Price Distribution for Region (Andrew)
- Graph for Average Price for Minimum Nights (Kyle G and Tristan)
- Graph for Price Distribution for each Season (Andrew)
- Added new design for website (Kyle B)

TODO List

- Backend Assigned to Kyle G, Kyle B, Tristan, Chris, and Andrew
    - Storing sum and total count for analytics that use averages
        - Acceptance Criteria: The analytics should run a lot faster than before using the sum and total counts for averages
    - Store columns that analytics use
        - Acceptance Criteria: The analytics should run a lot faster than before using only the stored data columns
    - Store the data used for analytics
        - Acceptance Criteria: The analytics should run a lot faster if the data is stored
    - Code is more readable
        - Acceptance Criteria: Code is commented and a bit more optimized on a small scale
    - Implement dependency tracking so only relevant analytics are updated when a dataset is modified
        - Acceptance Criteria: Debug displays that only the correct analytics are updated
- Frontend: Add pagination to table display - Kyle Bowen