

AirfareAffairs

Created By: Owen Allison, Vincent Bowen, Ethan Mcaleavy, Neil Patel, Zane Perry, Kyle Steinsvaag

AirfareAffairs

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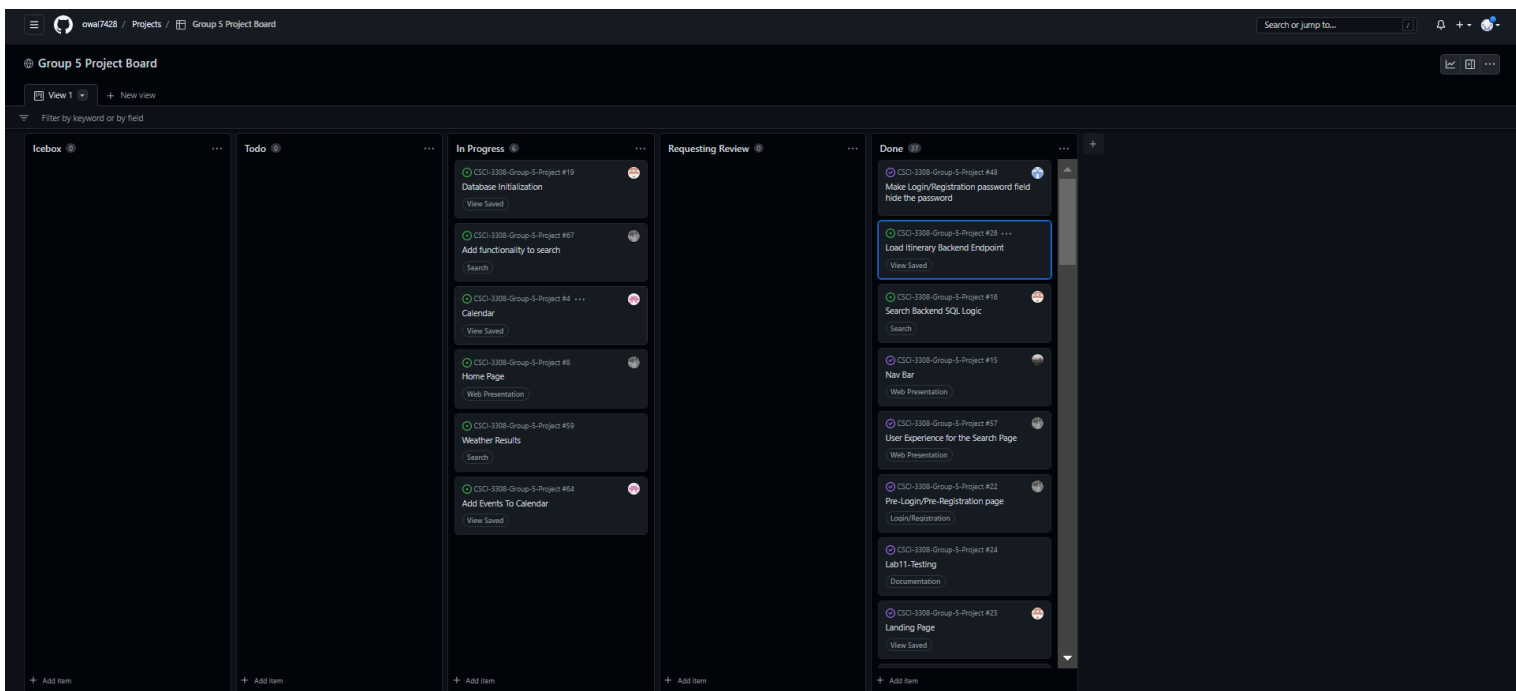
Project Description:

Our website allows the user to make a curated selection of flights for traveling based on preferences input by said user. Using multiple APIs in tandem with each other, our users are able to organize trips and vacations while viewing potential weather and flights to a specific dream location. Our users are able to create an account, log in, and access their plans in an organized and flexible way. In other words, after a user saves a travel itinerary, they are able to view their plans in the form of a calendar and make edits to the plan as they deem fit. This calendar is personalized for each user and even saves the user's trips after they log out and log back in. Users are also able to plan return trips back from their vacation or booking spot, which allows the user to plan an entire trip from start to finish. Our website uses 2 main APIs and a couple of supporting APIs to provide the user with this experience. Our weather API outputs a 10-day forecast for a location as well as average precipitation in a given area. Our flight API searches for flights from one city to another city which is inputted by the user. Overall, users are able to choose a destination based on weather forecasts, and flights to the inputted destination.

Project Tracker:

Link to Project board: <https://github.com/users/owal7428/projects/1>

Screenshot:

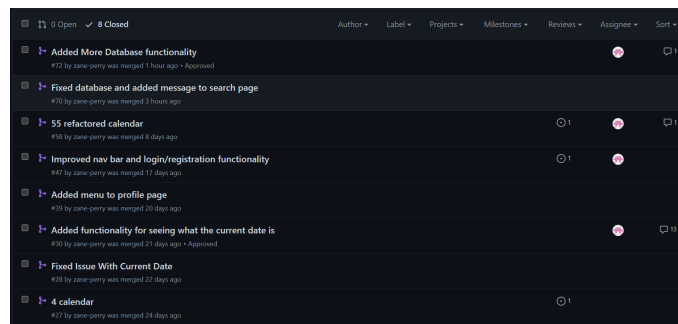


VCS:

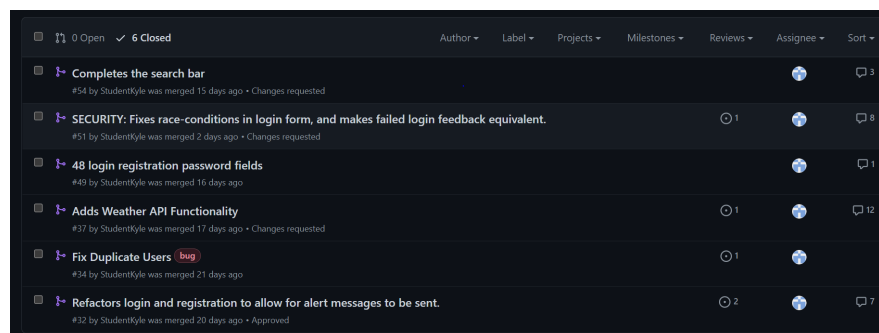
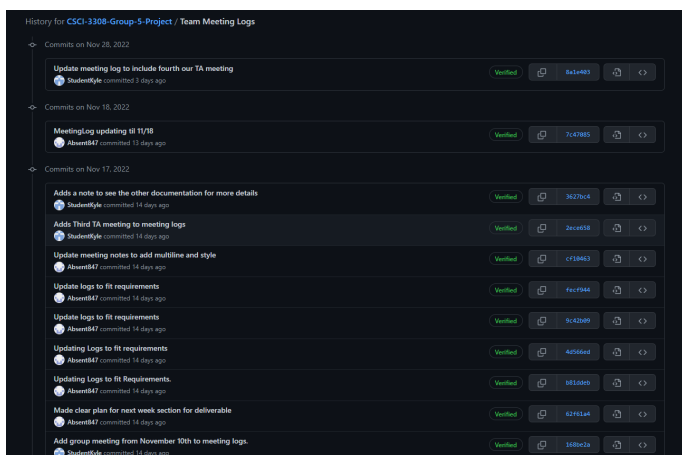
Link to GitHub Repository: <https://github.com/owal7428/CSCI-3308-Group-5-Project.git>

Contributions:

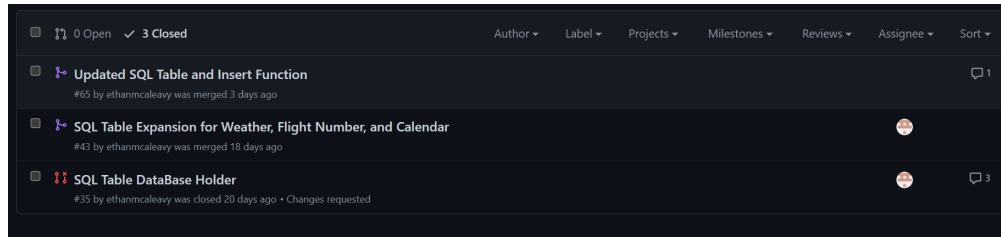
Zane: Worked individually on finishing and deploying the calendar functionality of the website. Completed frontend calendar display with interactable dates and times, and backend functionality to add events to the calendar. Also worked on adapting databases to data being received by the API calls by implementing post calls for adding trips.



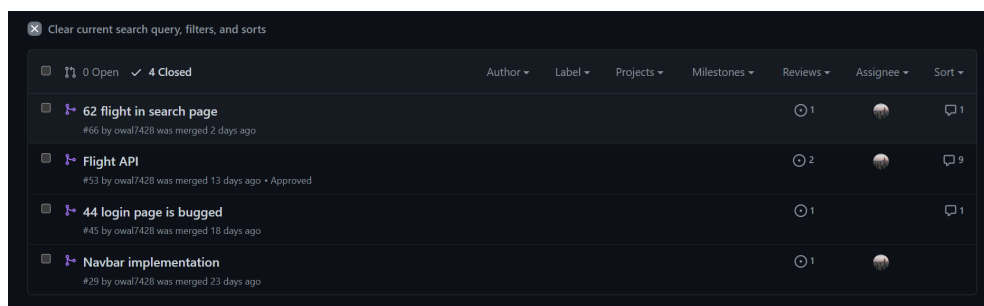
Kyle: Worked individually on finishing and deploying the weather API from Meteomatics. This includes filtering data and using posts and get calls from Meteomatics. Worked on login/registration pages frontend, also responsible for fixing multiple bugs involving users and error messages. Completed and debugged issues with the Nav bar. Worked in conjunction with Owen and Vincent with peer programming for search bar functionality and fixing/debugging API calls. Also, helped revamped flight API using Air labs rather than Aviation Stack.



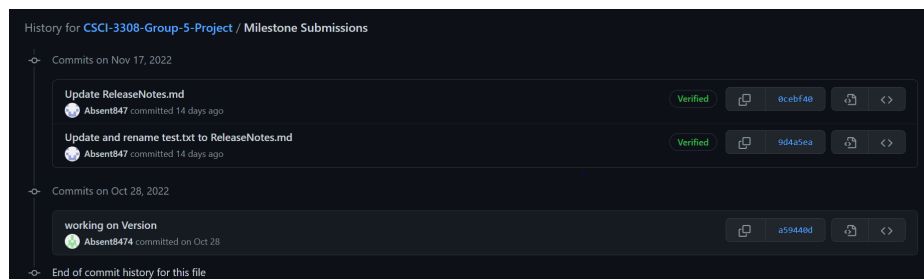
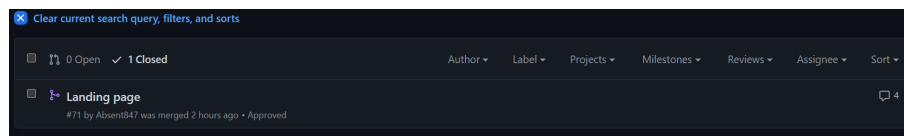
Ethan: Worked on backend databases. Made original skeleton of User and User trips table. Created and debugged tables used for flight and weather API data.

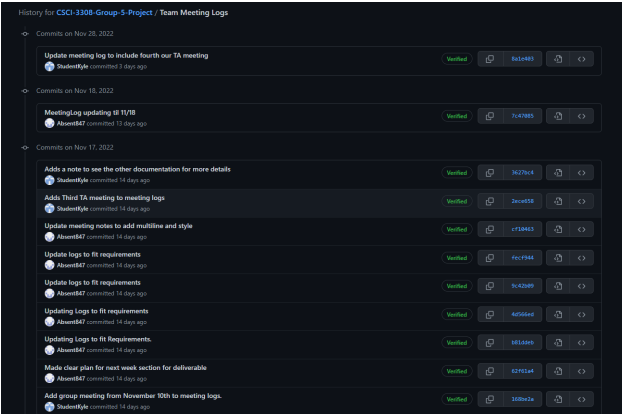
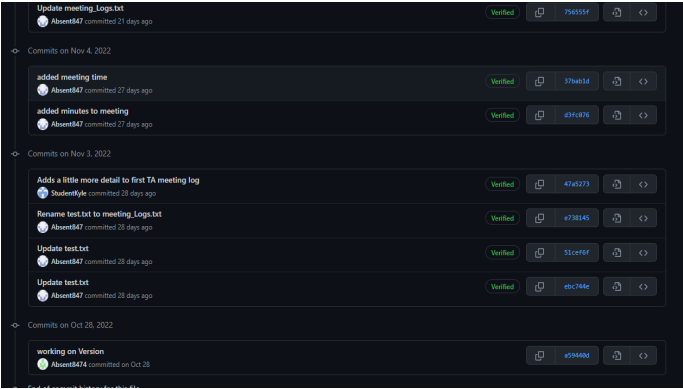


Owen: Made skeleton of original flight API from Aviation Stack, which was later used to shift to air labs. Worked on filtering data from and using post/get requests for Aviation Stack flight API. Also worked on partials for the footer, header, and menu. Also worked on the backend for the login and register pages.

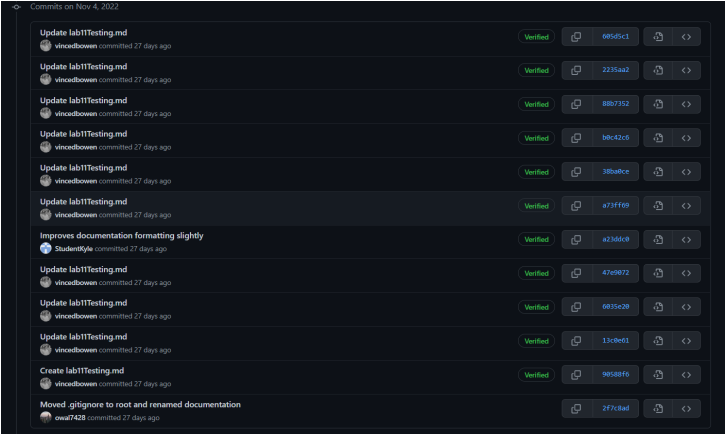
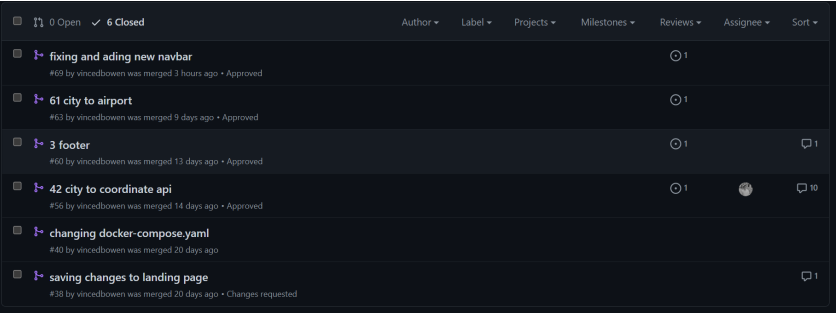


Neil: Responsible for documentation of project milestones, meeting logs, and release notes. Also completed the readme and project presentation. Also worked in conjunction with Owen to research and pseudocode flight API calls. Peer-programmed with Zane, Kyle, and Vincent on flight API and databases. Worked mainly on frontend development of landing and home page.



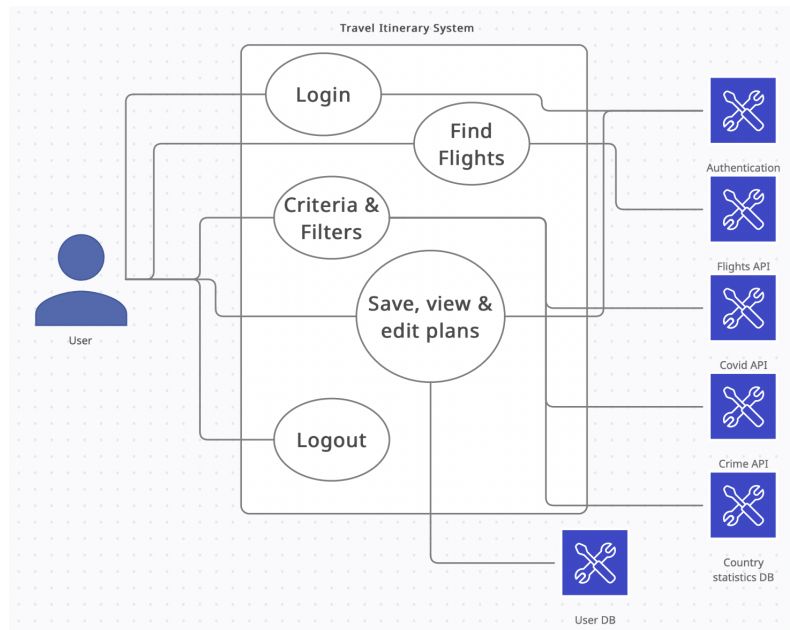


Vincent: Worked on filtering data from and using post/get requests for API Ninja’s city to coordinate and city to IATA APIs. Also worked with Kyle to revamp flight API using Airlabs rather than Aviation Stack. Completed footer and menu partials and worked on the initial skeleton of landing and home pages. Worked on adding a new logo-only nav bar for the landing, login, and registration pages. Found and wrote two JSON files containing conversions to country codes and airline names from various inputs. Enjoyed peer programming with Kyle, Zane, and Neil.

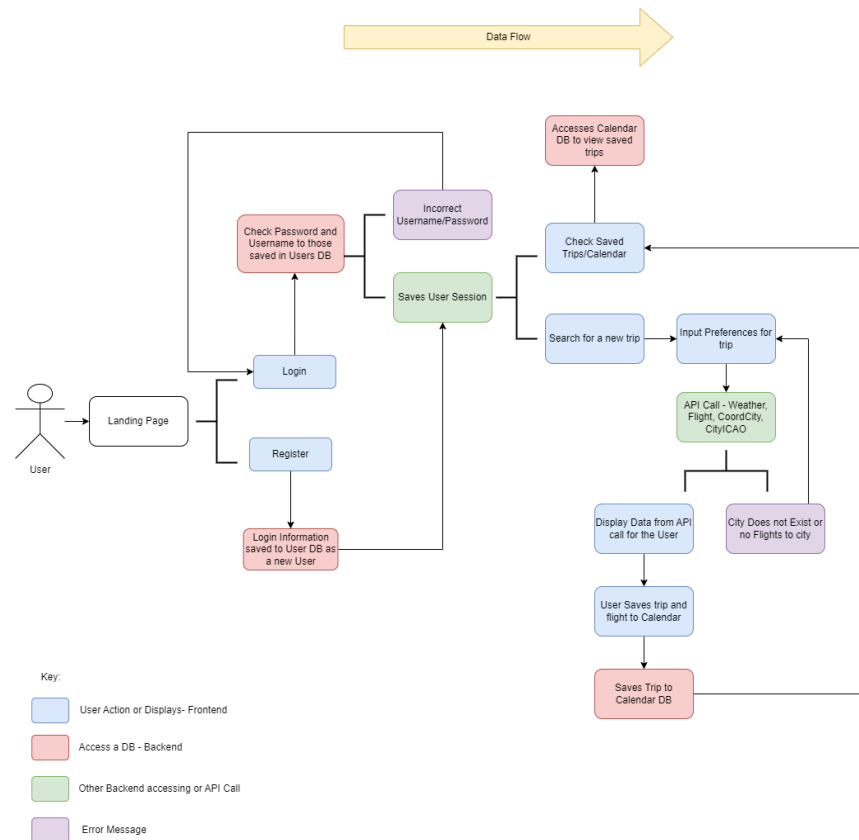


Use Case Diagram:

Original Use Case Diagram (made week 1)



Final Use Case Diagram (made week 4)



Test Results:

Link to all screenshots of outputs (name of each test case corresponds to the name of the screenshot):

<https://github.com/owal7428/CSCI-3308-Group-5-Project/tree/master/Documentation/testing-screenshots>

Test for successful login/registration render page:

- The user pressed the registration button and the registration page rendered, the same was seen with the login page rendering
- Test1-login.png
- Test2-register.png

Test for saved user session

- The user logged in, saved a trip to Madrid, Spain from 11/30 - 12/3, and logged out, then proceeded to log back in to see saved trips successfully.
- Test3-user-session.png

Test for duplicate user name error

- The user registered and logged out then proceeded to try to register with the same username and got the expected error message.
- Test4-duplicate-username.png

Test for form field requirements

- The user entered incomplete form fields on the calendar add event modal and got failed response message which was expected. This was completed twice leaving different fields empty each time.
- Test5-incomplete-date.png
- Test6-incomplete-city.png

Test for Username but no password when registering and logging in

- The user entered no username but filled the password field form when registering and got the expected error message, user entered the password but no username on the login page and got the expected error message.
- Test7-incomplete-register.png
- Test8-incomplete-login.png

Test login page

- The user inputted incorrect login information and got the expected error message
- Test9-failed-login.png

Test landing page rendering

- The user successfully rendered the landing page when visiting the website.
- Test10-landing-page.png

- Test10-landing-page-2.png

Test Logout page rendering and message

- The user successfully logged out and received the expected message
- Test11-logout-message.png

Test for saved trips when manually adding events

- The user added multiple events from Madrid, Denver, Newyork, and Hawaii over various days and each trip was saved successfully to the user account.
- Test12-saved-trip-database.png

Test for successful search output

- The user searched for flights from Denver USA to New York USA and received the expected results.
- Test13-search-success.png

Test for unsuccessful search output when trying to find a flight to a city that doesn't exist

- The user searched for a flight from Denver USA to Nonsense USA and received the expected error message
- Test14-search-failure.png

Test for an unsuccessful search of a valid city with no current flights to it

- The user searched for a flight from Atlanta USA to Paris France and received the correct “no current flights to destination” message, but still got the weather displayed which was expected.
- Test15-search-no-flights.png

Deployed link (does not work):

csci3308.int.colorado.edu:49155/landing

- Must be on CU wireless network, although does not appear to be working

Video Walkthrough:

<https://youtu.be/IfwkmWYu94k>

