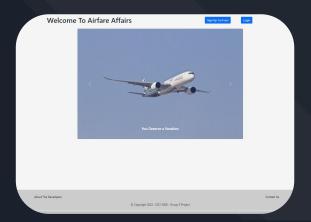
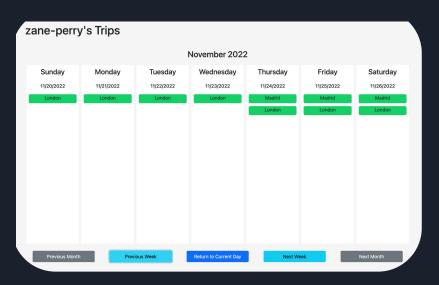
# <u>AirfareAffairs</u>

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



# Description



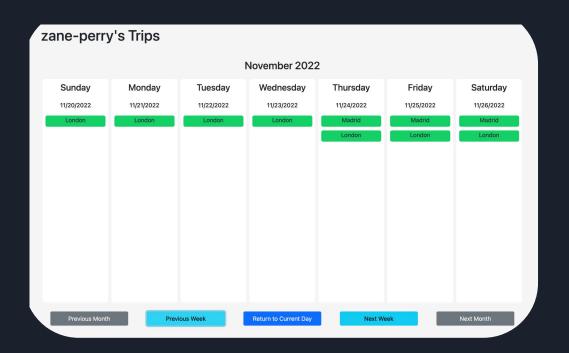
#### In one sentence ....

 Airfare Affairs is a travel manager that provides personalized search and booking capabilities based on preferences

### What does that mean?

- Our users are able to create an account, login, and access their plans in an organized and flexible way.
- 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.

# Walkthrough



### Tools Used

### Languages/tools Used (rating):

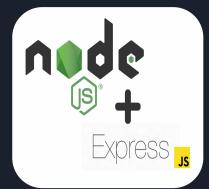
- For Frontend display:
  - JavaScript(4), CSS(3), and HTML(5),

- For Backend Management:
  - PostgreSQL(5), NodeJS and expressJS(4).

- For Project Management and tracking:
  - o Github (5).









### Tools Used Cont.

- Coding Environments:
  - Visual Studio Code (5), and JupyterHub(2)
- Testing and Deployment of Application:
  - Docker (5)

- External APIs:
  - Meteomatics(5), AviationStack(5), and API Ninjas(5)
- Communication:
  - Zoom (3), Google Calendar (3), I-Message(5), and Discord (2)







## External API's we used

### Meteomatics

Weather Forecast From Latitude and Longitude



### **API-Ninjas**

Coordinates and IATA Airport Code From City and Country



### **Aviation Stack**

Real time flight data from IATA Airport Codes



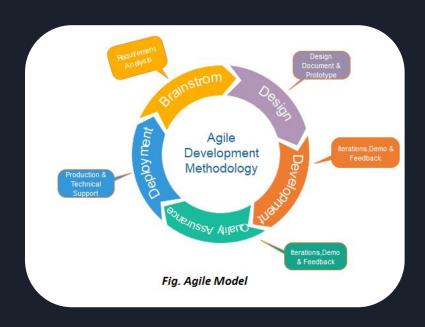
# Methodologies

#### Structure:

- Agile: Broke the project down
- Interactive: Weekly tasks

### Programming

- Peer programmed a little bit, but mainly independent branches
- Code was peer reviewed through pull requests before merging it to master

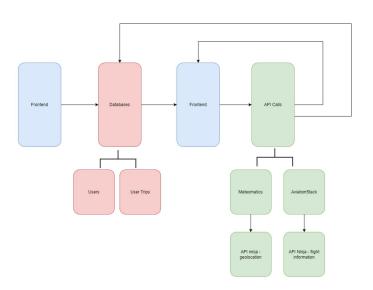


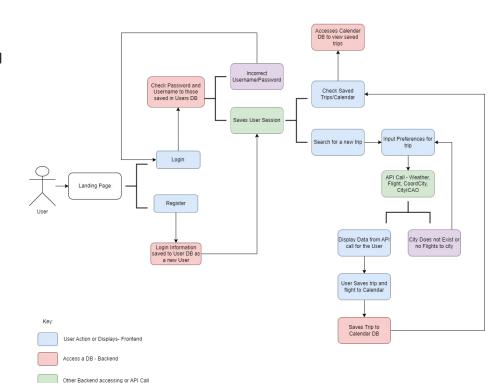
# Architecture Diagram

Data Flow

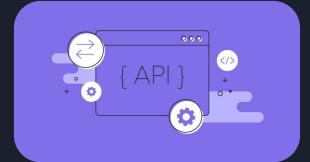
#### Basic Data Flow:

 User Input -> Database Check/Access (User and User Trips) -> API Call





# Challenges





### API's

- Too Ambitious
- Paywalled API's
- Messy Outputs

#### User

- Friendly User inputs that work with the API's
- Saving trips was much more difficult than anticipated
- Security password and usernames