

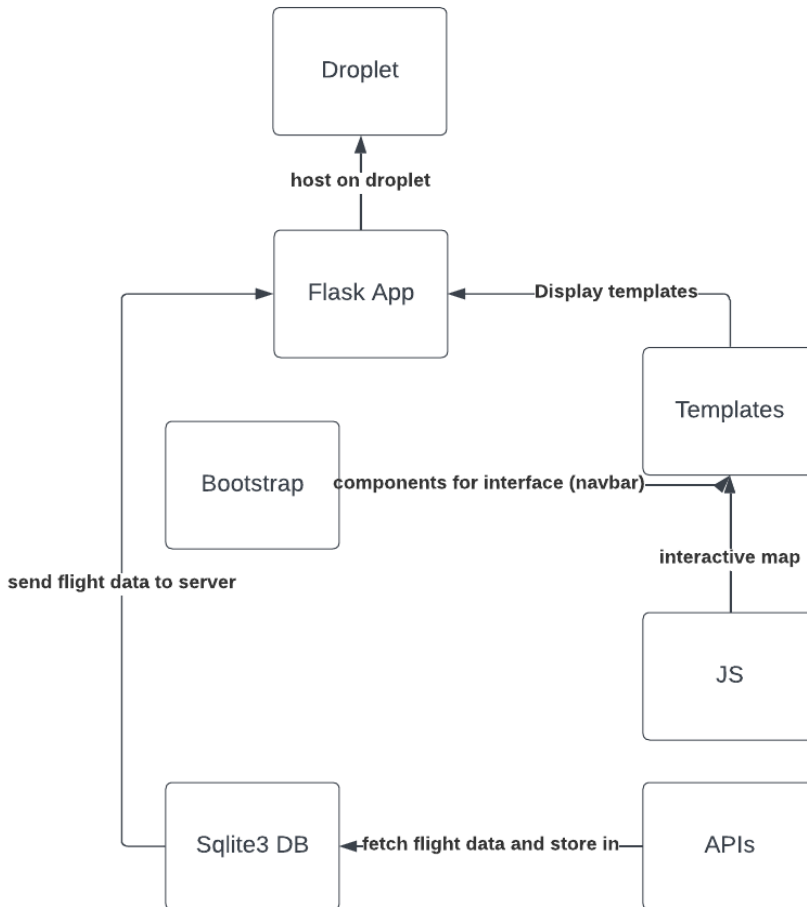
coMBAT TAMBOurine: Anson Wong, Mahir Riki, Talia Hsia, Brian Chen
Softdev PD2
2023-05-01
Target Ship Date: 2023-06-01

Program Components:

- flask app (__init__.py)
 - Db_builder.py
 - Populate database
- html templates
 - landing/map.html
 - Interactive live map of current flights(in air)
 - Able to select on a flight icon
 - Redirect to flightinfo.html
 - (maybe)Able to select on airport and only look at outgoing/incoming flights for specific airport
 - Login.html
 - Login page
 - Able to bookmark/highlight specific flights
 - flightinfo.html
 - Displays information on selected flight
 - Flight Number/Code
 - Airline
 - Scheduled & Estimated Arrival/Departure time
 - Departure vs Arrival Airport/location
 - Pulls from (Aviation Stack API)
 - airportinfo.html
 - Scheduled flights in and out of an airport
 - search.html
 - By airport(departure or arrival)/flight number
- CSS files (/static)
 - Using bootstrap (see front end framework)
- API keys (.txt)
 - OpenSkyNetwork.txt
 - AviationStack.txt
 - Maps.txt
 - See API Keys for more details
- JS (/js)

- Using to add an interactive map onto our site (this will go onto the homepage)
- Responsive flight icons and navbar when hovered over

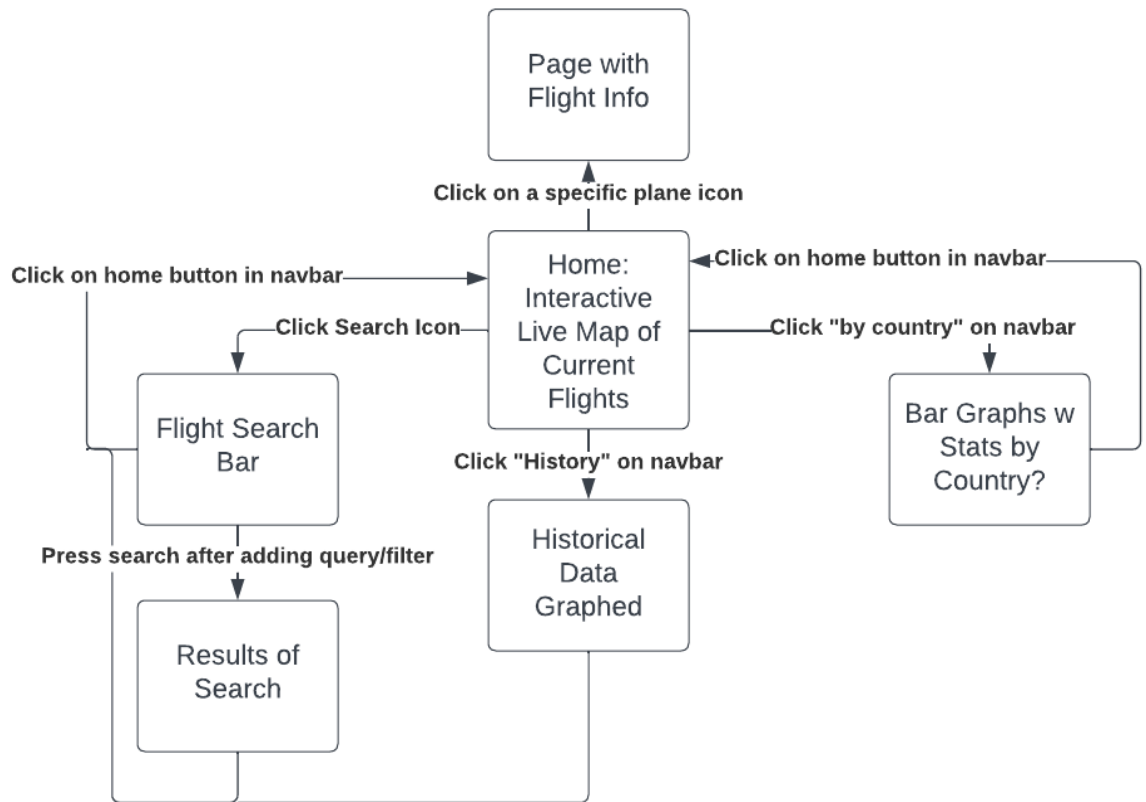
Component Map (Visual):



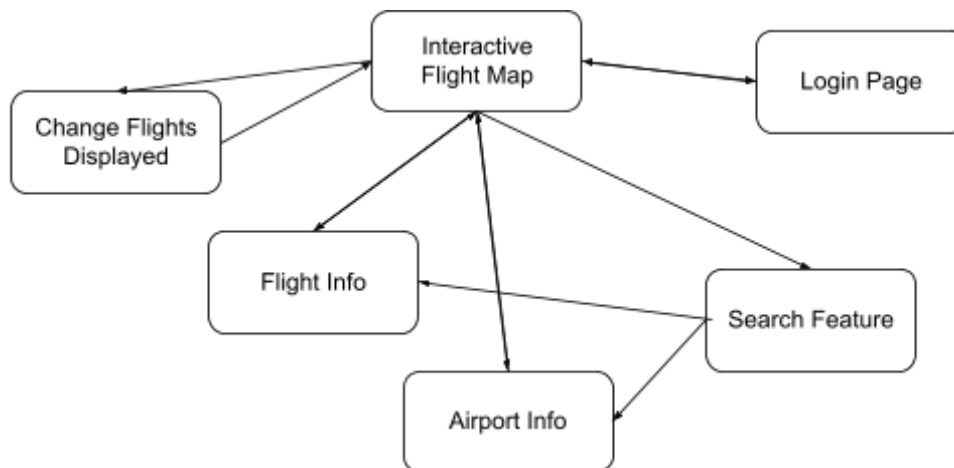
Database Organization:

We will use sqlite3 to create a table of all the flights, with each flight being its own row with its `_id`, flight date, flight status, departure time, arrival time, country, latitude, and longitude.

Site Map (Visual):



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Front End Framework:

Bootstrap, our members have more experience using it and feel that it has clear documentation. We especially plan on using it for how the user navigates to different sites (navbar).

APIs:

OpenSky Network API- live airspace information

Aviation Stack API- aviation data (likely using for live flight status, historical flights, and routes)

- We have included both since they both have usage limits.

(Google) Maps API- has features to render objects into map; calculate information like distance matrices

Task Breakdown:

Anson - populating database from API

Mahir - js (map for homepage)

Talia - html template and flask app

Brian - database creation and management