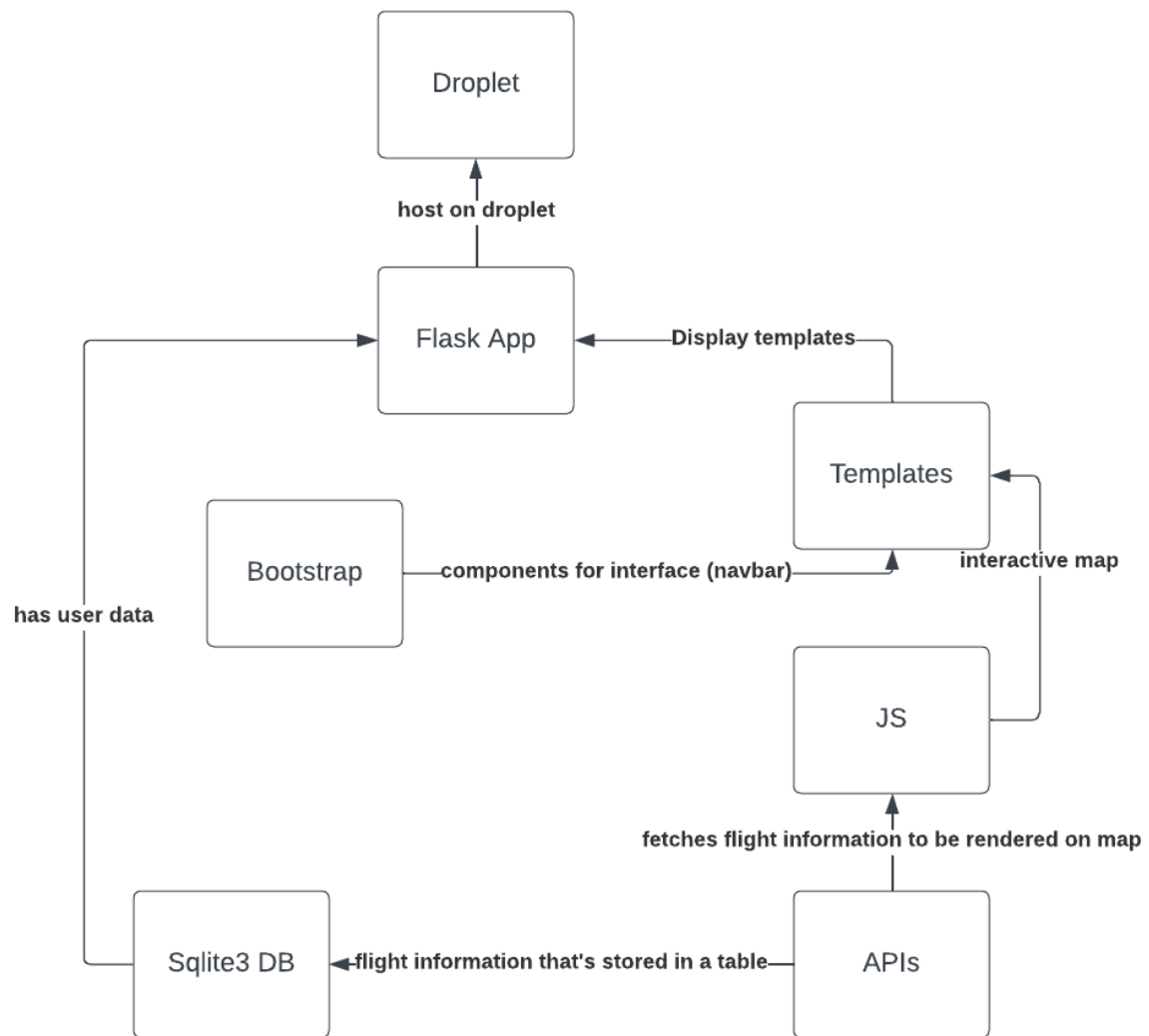coMBAT TAMBourine: Anson Wong, Mahir Riki, Talia Hsia, Brian Chen
Softdev PD2
2023-05-01
Target Ship Date: 2023-06-01

Program Components:
We use the OpenSky API to fetch the flight information, specifically latitude, longitude, callsign, angle, and if it's on the ground or not. We use that to render markers on a map using javascript and leaflet. The javascript is linked in our landing page template; bootstrap is only linked on all templates. Our templates for our login, register, and landing are rendered on the flask app which runs on the droplet. We use the sqlite3 database to store users with their username and password for logins. Usernames and passwords are stored in the database when users register through the forms and that's used to verify user accounts when they login. The flight data from the API is also stored in the sqlite3 database, in a different table with f_id, callsign, origin_country, lon, lat, andlast_update.
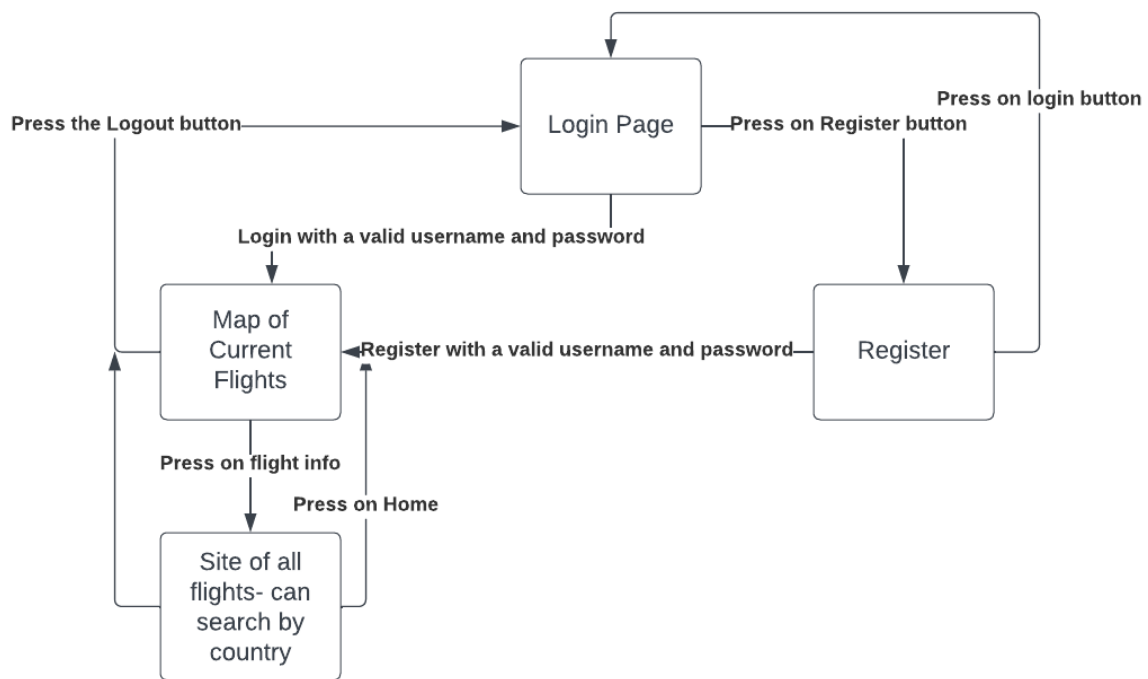
Component Map (Visual):

Database Organization:
We use sqlite3 to create a table of users with username and password.

Site Map (Visual):

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

Task Breakdown:

Anson – populating database from API

Mahir – js (map for homepage)

Talia – html template and flask app

Brian – database creation and management