Airport Buddy Web App

Springboard Software Engineering Career

**The goal of Airport Buddy is to provide a trip management tool for group to plan their trip to the airport.**

**Travelers can manage create, edit, and remove trip-info while viewing security wait times and commute-time to the airport.**

# Data retrieved from [TSA WAIT TIMES API](https://www.tsawaittimes.com/api/airport)

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* GET /airport/{KEY}/CODE

**Specific Airport Status** - Displays data from a specific airport, when providing the 3-letter IATA airport identifier (CODE). The data acquired includes airport location (latitude and longitude), TSA security wait time, as well as FAA alerts affecting flight boarding time.

# Data retrieved from [BING MAPS API](http://dev.virtualearth.net/REST/v1/Locations)

* GET /Locations

**Geographic Coordinates** - Retrieves latitude and longitude coordinates given a home address including street, city, and zip-code (Only available for USA currently).

# Data posted from user

* The user adds a New Trip, prompting for Trip Name, Destination, Departure time, # of Bags, and Takeoff Time.
* The user then enters their name and home address
* The user enters bag weight, type (carry-on or check-in), and a photo URL of the bag.
* A table will display Trip, Passenger, and Baggage information

## Diagram Description automatically generated with low confidence

## Schema of the Airport Buddy Web App

# Potential issues

* Airport coordinates and home coordinates being unrealistically far apart.
* User entered takeoff time must not be in the past – datetime management
* Adding/Removing a passenger from a trip while the trip still displays passenger information
* Adding/Removing a bag from a passenger while the passenger still displays bag information
* CSS table, form ,and position – style management with CSS
* API Data units in seconds need to convert to minutes
* Convert API data to string to be displayed on front end
* API key management (TSA Wait times API KEY has a 7 DAY expiration)

# UI functionality

* The Passenger should enter an airport and a home address with a reasonable commute time displayed
* Baggage information should be displayed for an individual Passenger and all Passengers for all trips in a Baggage Carousel
* A Nav bar will let users alternate between Trip, Passengers, or Baggage
* The user profile should be sensitive and a warning to be displayed to the user that their information is stored as plaintext