

Cold Embers: Emily Ortiz, Gabriel Thompson, Sadi Nirloy, Thomas Zhang
Software Development
P01 Design Doc: ArRESTed Development
2022-12-06
time spent: 2.5 hours

Target Ship Date: 2022-12-21

GENERAL IDEA

A website designed to help someone find things to do and places to go during a layover in between flights.

- Input: Airport/Airport Code, Layover Start Time, Layover End Time
- Output: List of Businesses, Hotels, and Restaurants that the user could do during the specified layover
 - Images?
 - Links to Yelp and google maps?

PARTS

Front End Framework: Bootstrap

Our resident front ender decrees so. "Foundation buttons are ugly." He also already made a great landing page with bootstrap, so we're switching.

APIs in Use:

- [Airport API](#):
 - <https://rapidapi.com/blog/airport-info-api-with-python-php-ruby-and-javascript-examples/>
 - To get the coordinates of an airport from a name, an IATA code, or an ICAO code which airports are given as identifiers.
- [Yelp](#)
 - <https://docs.developer.yelp.com/docs/fusion-intro>
 - Using the coordinates of the airport, we find nearby businesses and restaurants within a 5 mile radius with appropriate open hours
 - Business must be open before halfway point of layover time
- [Hotels](#)
 - <https://rapidapi.com/davidtaoweiji/api/priceline-com>
 - Using the coordinates of the airport, we find hotels w/in a 5 mile radius available for overnight/longer overlays
- [Embedded Google Map](#)
 - <https://developer.tomtom.com/map-display-api/documentation/raster/map-tile>
 - Adding bits of google maps to show the location of the businesses on Google Maps

Database Storage:

- Users
 - Column 0: Username
 - Column 1: Password
- Business Feedback
 - Column 0: Name of Business
 - Column 1: Location
 - Column 2: Net_Rating
- Hotels
 - Column 0: Name of Hotel

- Column 1: Coordinates of Hotel
- Column 2: Name of nearby airport

Python:

- One Flask App that acts as the middleman between the front end framework and the information from APIs and the database
- A program that holds a bunch of functions that interacts with the database directly
- A program that uses all of the APIs so that the users don't rapidly use up all of the API requests

PLANNING

Tasks:

- ☐ Accessing the 3 APIs via Python
- ☒ ~~Make API cards~~
 - ☒ ~~Airport (Emily)~~
 - ☒ ~~Yelp (Gabriel)~~
 - ☒ ~~Hotels (Thomas)~~
 - ☒ ~~Embedded Google Maps (Sadi)~~
- ☐ Database Logins and Registration
- ☐ Take in user requests and getting info from API
- ☐ Storing the businesses and hotels onto the API
- ☐ Map API
- ☐ Embedding the Google Maps to show businesses and hotels
- ☐ Front End Stuff to beautify the site

Task Assignments:

Sadi: Database

Gabriel: Foundation

Emily: API

Thomas: Flask

Prioritized To-Do:

Due for Mon class:

- ☐ Emily: All methods in api_handler.py (not map api) (moved to Tues)
- ☐ Gabriel: Homepage for site (moved to Tues)
- ☐ Thomas: Flask app for registration and login (move to Tues)
- ☒ ~~Sadi: Login and registration stuff and probably new map API, hopefully~~

Other:

- ☒ ~~Access keys from keys folder, not directly coded in api_handler.py~~
- ☐ Do layover time/hours open for yelp_api
- ☐ End of project: make sure requirements.txt is up to date
- ☐ Update design doc at some point?
 - ☐ New APIs
- ☐ API Key issue handling
 - ☐ Bad key
 - ☐ Key not found
- ☐ Accessing keys from anywhere in the file directory (deliverable) (Emily)
 - ☐ Someone else testing this

- ☐ Fix launch instructions

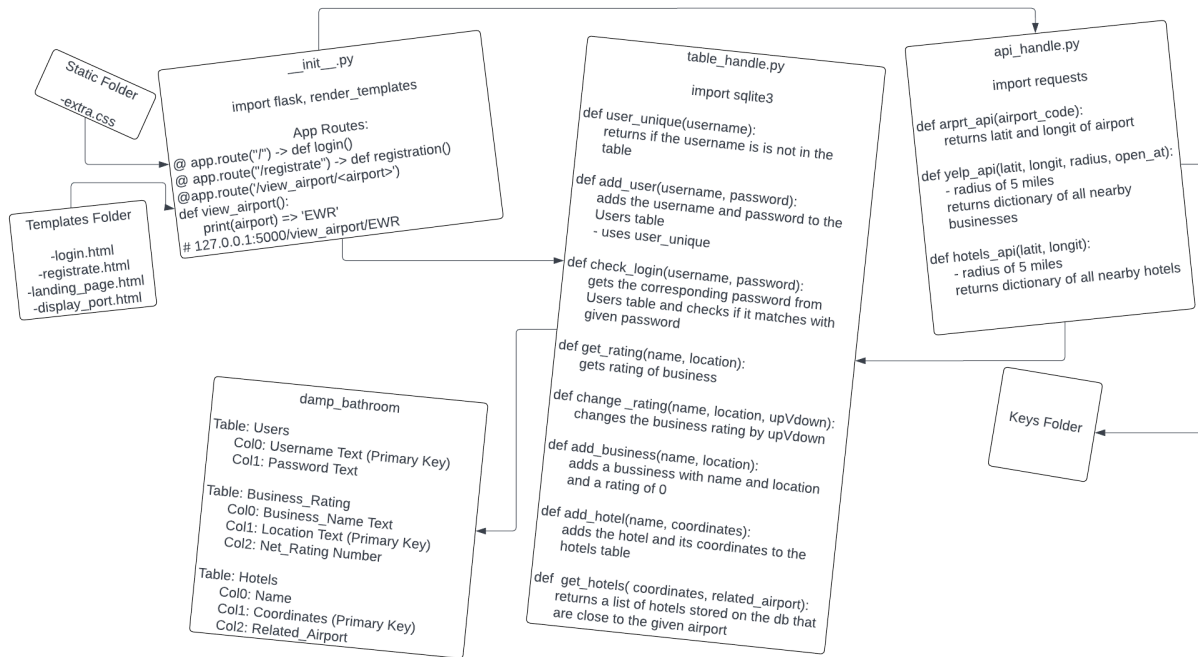
Restaurants, Businesses, and Hotels should have:

- Name
- Street Address
- Phone Number
- Link to website
- Price
- Hours
- Rating

Stretch Goals:

- Put an [embedded google map](#) into the website in which users can navigate to their airport and click on a pinpoint to select their airport
 - Would work for any location selected, not just an airport
- On results page, list top 3 places for each category
 - “See more” button for each category
 - put hotels, businesses, and restaurants on separate pages
- Have page not refresh when an upvote/downvote is submitted (like YouTube)
- Advanced search feature which accounts for price

COMPONENT MAP



SITE MAP

