P1: Design Doc

WDMP (World Domination by the Magical Pinks)

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SoftDev Period 8

Target Ship Date: 2022-12-21

Framework: Bootstrap

APIS

• <u>Weather</u>: gets weather of given locations

- OpenTripMap: provides information of hotels and tourist locations such as location, descriptions, images, etc.
- Google Maps: provides directions to places
- Amadeus: provides flight information, and info to airports and IATA codes

Website Description:

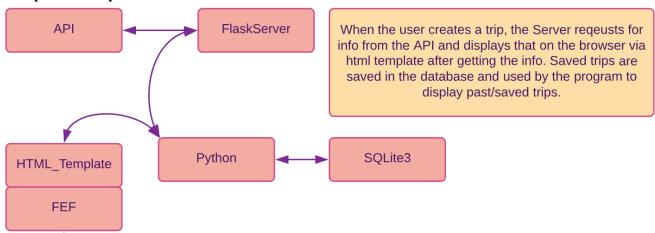
Site Name: Trippin'

- Based on user selection, app will help plan a trip
- Tracks flights that goes from original destination to desired destination for given date(s) (Amadeus API)
- After user inputs information (what type of entertainment they want, how many activities they want to do per day, etc.), the website will generate a trip for them (OpenTripMap API)
 - All entertainment locations will be shown on a map
 - Will be created at given longitude and latitude on map (Google API)
- Each activity will show a description of it with pictures with category (OpenTripMap API)
- After trip is generated, user can select hotels based on location (OpenTripMap API)
- Will display weather on saved trips page (Weather API)

Bootstrap:

- We will be using the bootstrap .navbar class to allow users to navigate through the different pages on our site
- The spinner component will be used with our logo as the spinning image so users can have something fun to see the logo spinning as they wait for the page of results to load
- We chose bootstrap because the class name is easier to work with and it has more features

Component Map



Python

- Python will be used to connect database with flask server
- Make calls to APIs to retrieve information that we serve up

SQlite3

- Using database to store login data for users
- Store saved user trips

HTML Template

• Used to build up website in conjunction with flask

Flask

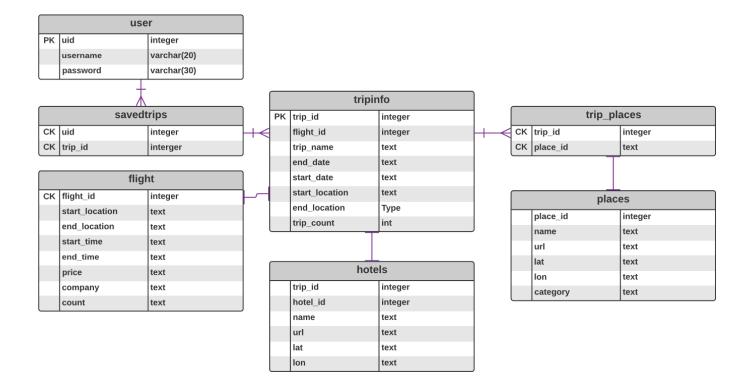
- Flask will be the server used to send requests to the APIs.
- Will be used to render html templates onto the browser.

FEF(Bootstrap)

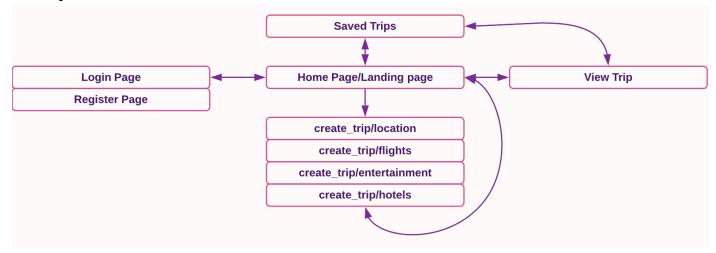
- Will beautify the website.
- Make navigation between areas sites more user friendly.

Database Organization

- User login information will be stored
- Saved trips will be composed of a composite key of user id and trip id.
 - Each trip id will have its own properties in another table.
 - Flight, activity, and hotel data will also be stored in their own tables, each corresponding to a specific trip.
 - Each activity, or place, will be stored in another table with the trip id and place id.
 - This makes it easy to see which places correspond to a certain trip.



Site Map



Login Page

• User inputs username and password to enter website

Register Page

• User inputs new unique username and creates a password

Home Page

• Shows all trips created by the user.

Create Trip

- Location: dropdown menu that user can select a country then a city in that country
- Flights: user inputs the location they are traveling from and flight options will appear for user to choose
- Entertainment:
 - User selects what type of activities they want do and how many activities they want to do per day
 - Set of activities will automatically generate

- Hotels: user will select which hotel they want to stay at
- Submit button at the end where user will add the trip to the database

View trip

• User views the specifics of selected trip

Breakdown of Tasks

April: bootstrap/htmlAahan: flask/api

Joshua: database/flask/api Yuki: bootstrap/html

Extra:

• Map Clicking Interactions

• Will also display all restaurants around each activity user chooses

Edit saved trips

