

P1: Design Doc

WDMP (World Domination by the Magical Pinks)

PM April Li (Horanghae), Aahan Mehta (Spikes), Joshua Liu (Vengeful Whale), Yuki Feng (Ben)

SoftDev

Period 8

Target Ship Date: 2022-12-21

Framework: Bootstrap

APIS

- [Weather](#): 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

Website Description:

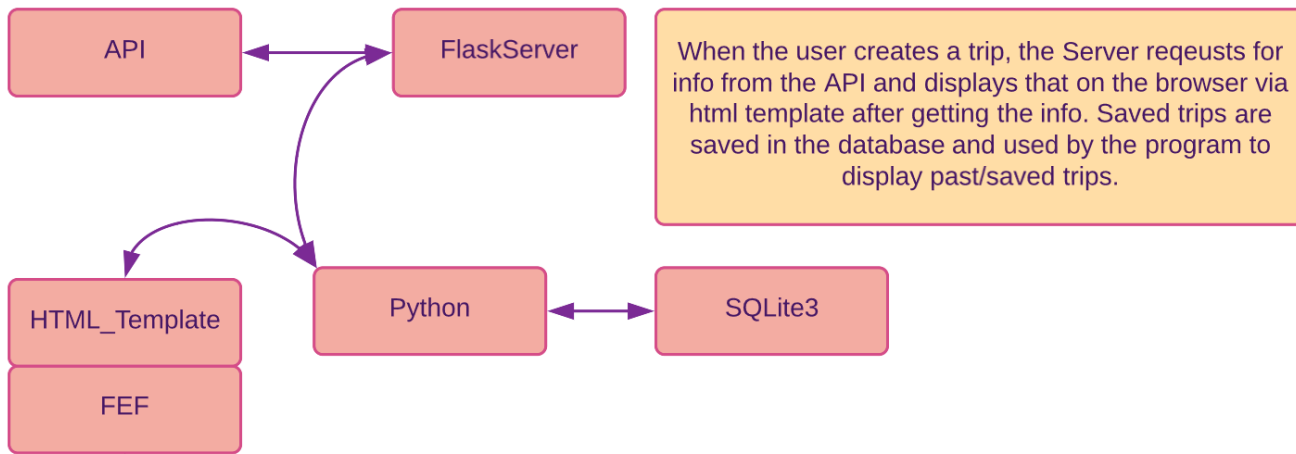
Site Name: Trippin'

- 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)
 - User can still edit entertainment given by adding/deleting
 - Drop down will be shown of options that user can add
 - All entertainment locations will be shown on a map
 - New dot will be created at given longitude and latitude on map (Google API)
- When viewing each trip entertainment: will show a description of it with pictures, descriptions, etc. (OpenTripMap API)
- After trip is generated, user can select hotels based on location (OpenTripMap API)
- Based on weather, there will be automatic filters that will prevent certain attractions such as rain preventing outdoor activities (Weather API)
- After user creates a trip, the trip will officially be saved in the database

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

- Only storing saved trips in database and user login information
- 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.

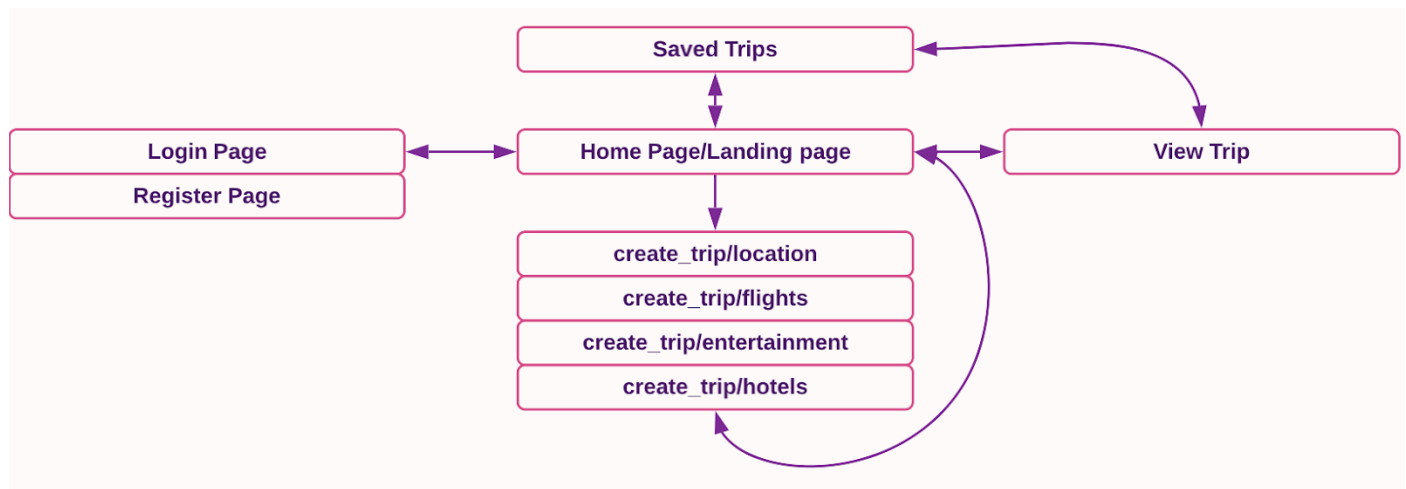
user		
PK	uid	integer
	username	varchar(20)
	password	varchar(30)

savedtrips		
CK	uid	integer
CK	tripid	integer

tripinfo		
PK	tripid	integer
	Country	varchar(20)
	City	varchar(30)
	Hotel	varchar(40)



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 to do and how many activities they want to do per day
 - Set of activities will automatically generate, but user can still edit activities
- 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
- Note: user will be able to go back to old sections of create trip

View trip

- User views the specifics of selected trip

Breakdown of Tasks

- April: bootstrap/html
- Aahan: flask/api
- Joshua: database/flask/api
- Yuki: bootstrap/html

Extra:

- Map Clicking Interactions
- Will also display all restaurants around each activity user chooses

login
↓

landing page

WOMP

new trip saved trips login logout

Discover trips!!

Trip 1 (pre-planned)

Trip 2

...

new trip/location

Nav bar

Country: dropdown

City: dropdown

Submit

Shows after selecting country

new trip / plan select

Nav bar

What type of activities do you want to do

☐ amusement park

☐ zoo

☐ museum

Submit

↓

Nav bar

List of places

Place 1

Place 2

after clicking on place show location

Nav bar

Hotels

Hotel 1

Hotel 2

will show map with hotel location in respect to locations chosen

Create trip

Saved trips

Nav bar

Trip 1

Trip 2