

**Team XCAN - Anthony Liang, Constantine Athanitis, Nancy Cao, Xinhui Xu**  
**Project Manager - Anthony Liang**

**Abstract:**

Our idea is to develop a web application that utilizes the data from open APIs to create a date planner. Upon entering the site, the user is directed to fill out a form. We will use the information provided to generate the best possible date plan for our user; these can/will include places like restaurants, or events like concerts. Some of the parameters the user can adjust include: location, date type, and cuisine.

**Timeline:**

By 12/7/2016:

- Figure out how to access the data from APIs
- Make sure the frontend of the website has forms for input
- Be able to make get/post requests and obtain some dummy data
- Figure out how to obtain a user's location (who is not on a mobile device)

By 12/9/2016:

- Have a functional form, users are able to enter parameters
- Form should include basic info (name, date type, )
- Results page should be functional, figure out how we want to display our results
- Preliminary backend code to parse data given the parameters

By 12/11/2016

- Form should work as intended
- Presentation of the site is appealing (we will have some jQuery and some UX designs)
- Accurately return date suggestion based on the filter
- Work on fixing any leftover bugs and implement additional features

Due Date: 12/12/2016

**API Usage:**

Google Maps API: limit the circumference/distance for where the user wants to go. Within that distance, other parameters will also be used to filter out the places (such as price range). This will give the list of restaurants/activities given the user's specifications.

Yelp API: Each entry of the list (a place) outputted by the Google Maps API, will be inputted into the Yelp API to return reviews for them.

Eventbrite API: Based on location and other parameters (ie the same ones inputted into the Google Maps API), eventbrite will output a list of events (not places) that match the user specifications.

**Task Assignment:**

Anthony:

- Project Manager
- Backend: Yelp API

Constantine:

- Backend: Google Maps API

Xinhui:

- Frontend: Developing bootstrap framework and beautifying site

Nancy:

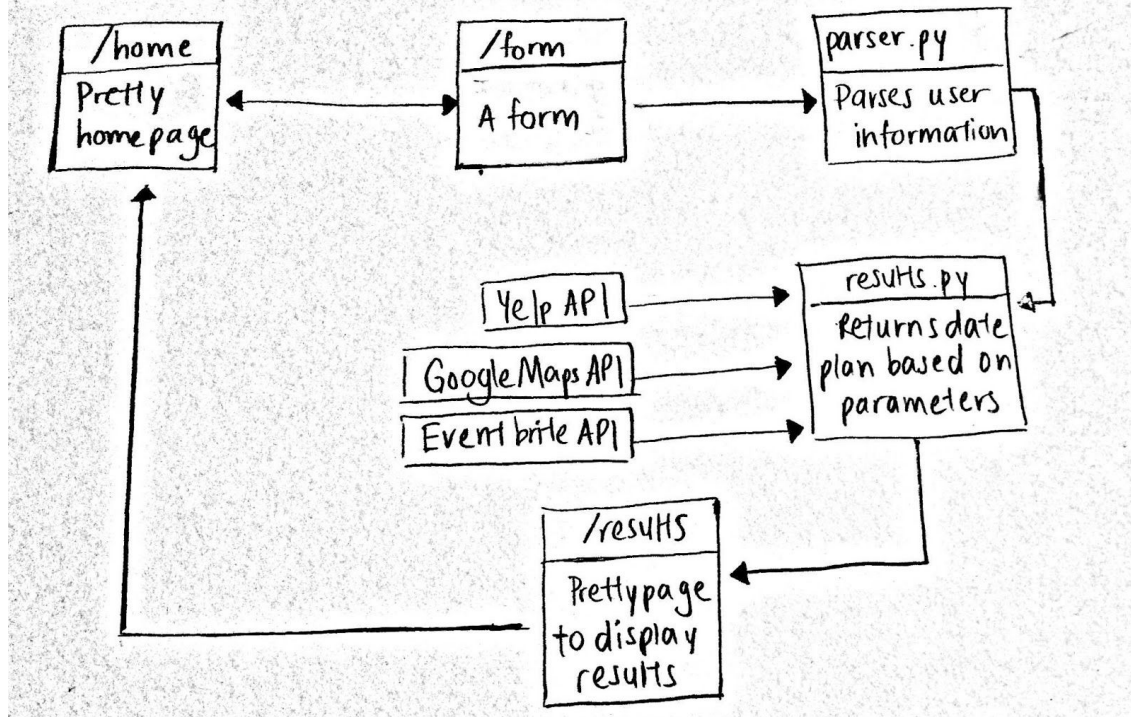
- Backend: Eventbrite API
- Help Xinhui with front end.

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**Possible Additional API's**

- Ticketmaster
- Movies Database
- Weather

## Site Map - TeamXCAN



### Component Map:

/

- app.py

/utils (\*needs to be init as module)

- parser.py
- results.py

/css

- bootstrap.min.css

/js

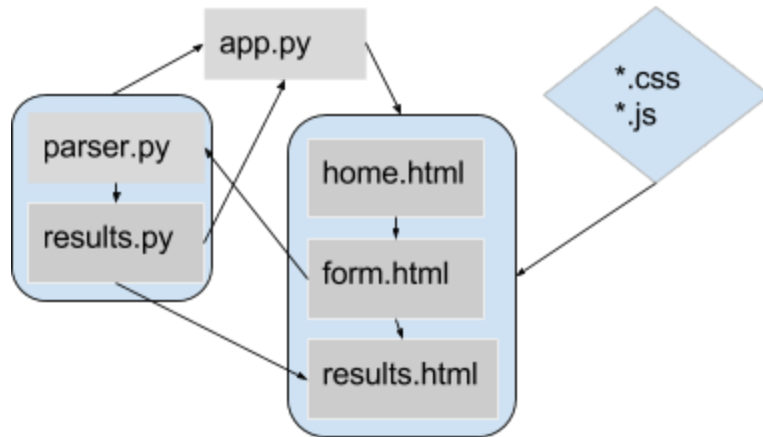
- bootstrap.min.js

/templates

- home.html
- form.html
- results.html

/static

- app.css
- apikeys.txt



### **Component Descriptions:**

#### **app.py**

Driver with Flask implementation.

#### **parser.py**

Parses user input from form.html form.

#### **results.py**

Returns list of place & event suggestions based on information from parser.py and results from the Google Maps, Yelp, and Eventbrite API.

#### **bootstrap.min.css**

#### **bootstrap.min.js**

Necessary files for Bootstrap

#### **home.html**

Homepage for website.

#### **form.html**

Contains form for user input.

- Location
- Distance
- Price range
- Date
- Type of food
- Type of event
- Movie genre (extra)

#### **results.html**

Lists place & event suggestions.

**app.css**

CSS for website

**apikey.txt**

Contains keys for each API.