Team Famillia
Vincent Liok, Kathy Lau, Asher Lasday, Felix Rieg-Baumhauer
Pd 8--Softdev

Introduction:

The theme of our project is the use of addresses, which means the Google Maps API will be essential. On our main page, the user can submit an address and a map will be displayed which shows the location of the address and a bit of its surroundings. This is the core functionality of our project but we aim to implement additional features that complement the use of addresses. For example, a weather section will display the temperature of the area, a food section will display the names of nearby restaurants, a movies section will display the names of nearby movie theaters, and the events section will display the names of nearby events taking place. Another extra feature is a toggle button that would highlight certain establishments on the map. For example, the food section will have a button that when toggled, highlights all the restaurants on the map.
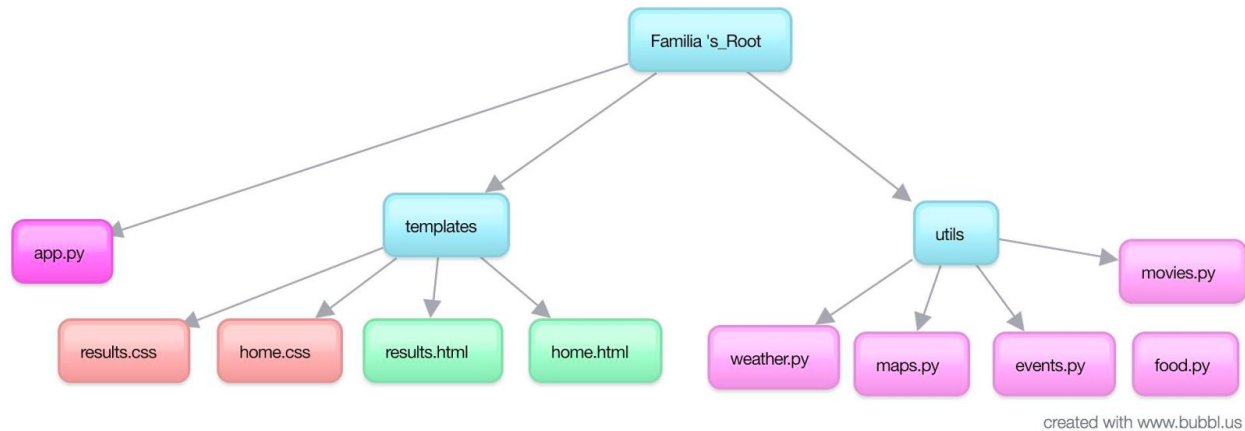
Roles:

Felix: submitting an address and displaying map, events section-if feasible
Kathy: food section, front-end (UI/UX) using foundation (foundations)
Asher: weather section and it's integration with the CSS, maintaining app.py
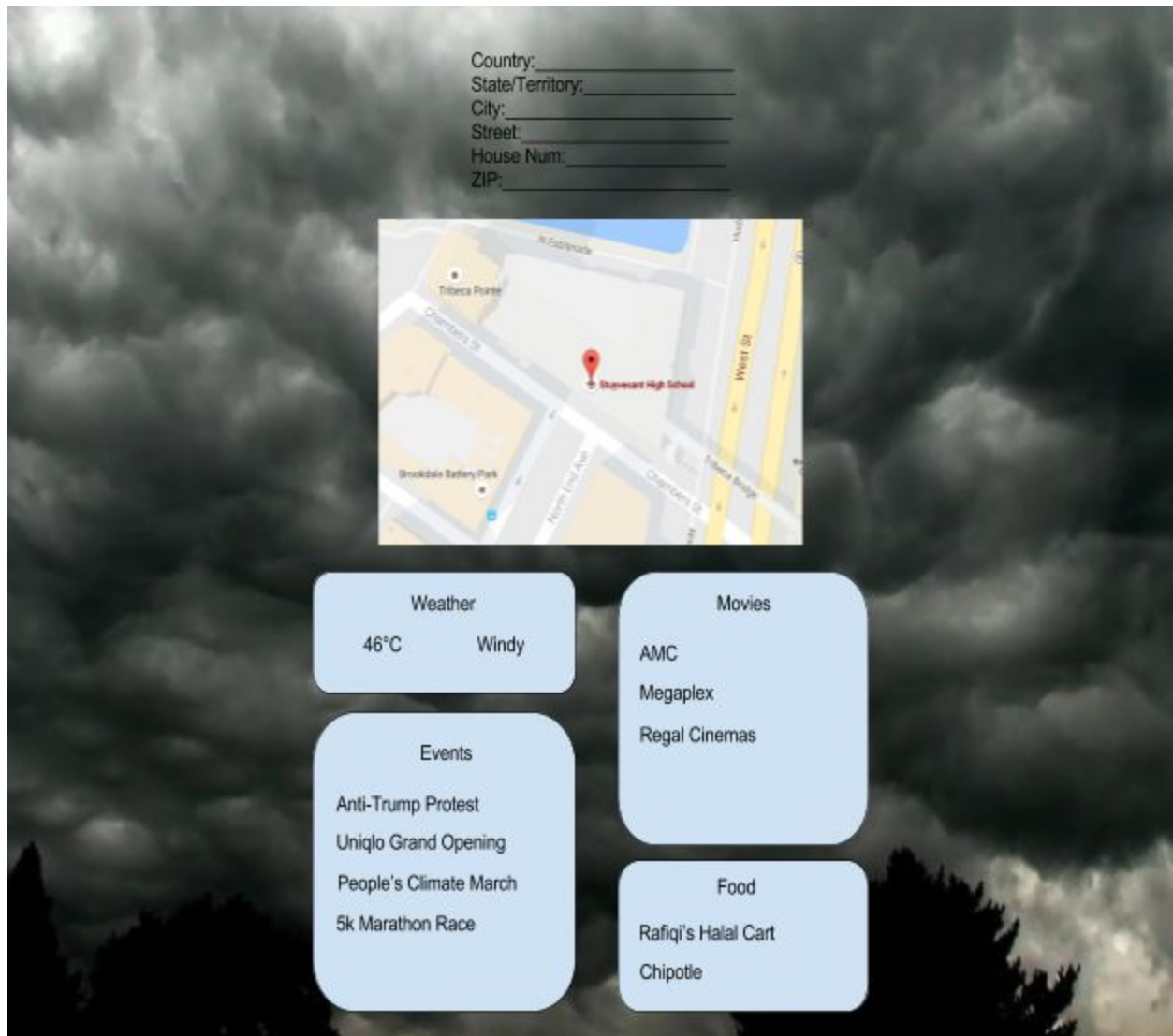Vincent: PM, movies section

Site Map:
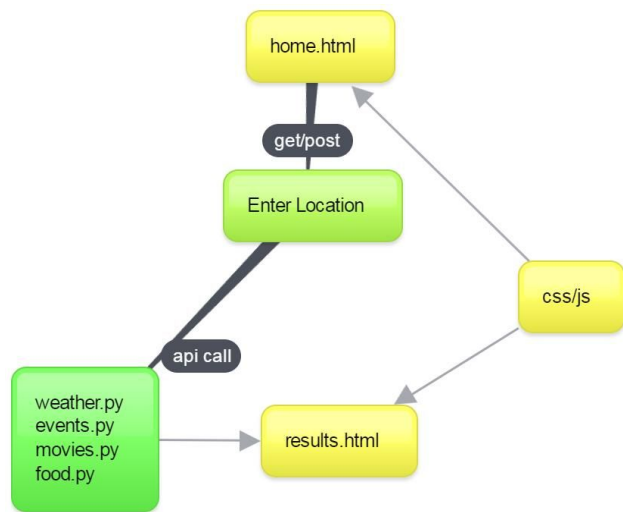
created with www.bubbl.us

Component Map:

Components:
- App.py
  - Contains flask app
  - Get returns home.html
  - Post returns results from py scripts
- Maps.py
  - Handles distance matrix for ETA
  - Directions to show map routes
  - Geolocation to provide location information
- Weather.py
  - Returns temperature, wind speed, etc.
- Events.py
  - Output a list of events based on user location and parameters if specified by user
- Food.py
  - Use yelp api to output list of restaurants with reviews
  - If possible plot halal carts as well
- Movies.py
  - List nearby movie theaters
  - Show current movies with reviews
  - Use youtube api to play trailer
  - Show ticket prices from ticketmaster

Country:_____
State/Territory:_____
City:_____
Street:_____
House Num:_____
ZIP:_____

Weather
46°C   Windy

Movies
AMC
Megaplex
Regal Cinemas

Events
Anti-Trump Protest
Uniqlo Grand Opening
People's Climate March
5k Marathon Race

Food
Rafiqi's Halal Cart
Chipotle

Background shows weather qualitatively

Deadlines:

Stage 1:
- Simple website in which an address is inputted, and a map is returned within the user's circumference.
- Additional feature-Use a geolocation api to find the user's location, no typing needed

Stage 2:
- Add features that show the local weather, local events, local movie theaters/movies playing, and local food options
  - Use a weather api to display temperature, wind status, basic info
  - Show a list of local events from an api using the location previously inputted
  - List nearby movie theaters
  - Use either google maps, or the yelp API to list nearby eateries

Stage 3:
- Give the movies, events and food options their own expandable site. There would be a button or link for each of the aforementioned topics (foo, events, movies), that would redirect the user to a page dedicated exclusively to that topic. As such you could easily see the five most "important" eateries going on close to you, but you can see a lot more food options going on by hitting that topic's link. In this link you would be able to the following.
  - Show youtube trailer videos from the movies outputted
  - See movie reviews
  - See restaurant reviews
  - Have links to official websites, ie event sites, restaurant sites, movie theater sites

Stage 4:
- The extras
  - Login
  - Saved events
  - Favorited events
  - Personalized settings
  - Notifications about events
  - Toggle button that highlights nearby restaurants, movie theaters, and events on the map

Stages 1 and 2 are considered critical for our project, they must be completed. Stages 3 and 4 will be adopted based on the rate of progress through Stages 1 and 2. Additionally, if deemed necessary by the PM, one of the three activities (food, events, or movies-most likely events as most event APIs use Oauth) could be left out of the final implementation.

Timetable:

Stage	Due Date	What to be brought	Who is responsible
1	Tuesday	Basic address input, map generation. This is the kernel of our project	Felix Kathy has worked with the google maps API already and will be instrumental in getting us of the ground.
CSS template	Wednesday	A CSS template that will be used throughout our project	Kathy

2	Thursday	The implementations of the various "activities" (weather, food, events, movies)	All members
Debugging 2	Friday	Thorough testing of part 2, ensuring that all parts work, and that all bugs are fixed.	All members
3	Saturday	The additional frills, ie the additional info pages	All members add to the activity which they made
Debugging 3	Sunday	Using the project that should be in essence done on Saturday, the debugging should address bugs.	All members
4	If time permits it	Any extra features	Any member

Important dates:
Tuesday-Stage 1 done, 1st iteration of the project
Thursday-Stage 2 done, what is produced here should be of "hand in" quality
Saturday-Project should be done, on Sunday, testing debugging and frivolous features may be added.