**Project Design**

**Introduction**

Our project is aim to design and implement a meet-up mash up application, combines data from multiple sources such as Kaggle Datasets(meet up data sources) and some useful API like google map and openweather bring them together into a single integrated user interface.

This application aims to suggest some useful information of meet up activities around the search locations, which including descriptions, time, routes, members, groups, topics and weather.

**Use-case scenario**

1. User should login then he can get authentication of the application and do further operations. For example, guest may only see some description of the event while members can see other attenders and use some more advanced funciton.
2. After login, user can search by location, and we can get that location’s meet up information such as postcode, country, photo and so on. Besides, on the right side of the page, there will be a label on the map to display that places.
3. When user click that label, user will get more information such as members and routes to the activities and weather of the date.

**System architecture and components**

This application includes data publication service api and data curation api and mashup application.

1. Date Publication Service API

This application will only read/query data and each data publication service will use single source or multiple data sources.

1. Data Curation/Analytics API

This application will utilize Google API and Openweather map API to get results without building a curation itself.

1. Mashup application

The whole web application to be designed will be interactive and display the useful information about meetup around users effectively.

**Date Sources and API**

Date Sources:

Kaggle Datasets: https://www.kaggle.com/sirpunch/meetups-data-from-meetupcom/data

API:

Google map: https://www.google.com.au

Openweather map: [http://openweathermap.org](http://openweathermap.org/)

**Dataset**

Mlab

**Roles and tasks**

Minzhen ye: build database and front end

Zheyu Li: server side and front end

Zeshi Wu: Client side and front end