**PROGRESS REPORT**

After the review from the first proposal, I decided to take a different direction for this project. The follow are the new proposal.

Project Title: Cultural Landscape

Team Member: Wesley Mao

**OBJECTIVE AND OVERVIEW:**

Urban planning is an important concept with the modern city. It affects how the city will grow and be developed. Neighborhood is one of the important concept for urban planning. Each neighborhood has its own characteristic. By the definition in wiki, neighborhood is a community that were geographical localized within a larger city. It often brings people with the same culture background or life style together. In New York City, there are little Italy, Chinatown, Korea Town, Chelsea, etc. All these different neighborhoods have different cultures associate to them. They also have their own boundary. They do not overlap each other. However, if we take a closer look, the way people live and social is a much fluid process. There is not a physical barrier between different neighborhoods to stop them from influencing each other. Therefore, the boundary of different neighborhood should be more porous and ambiguous. We can look at it from a different angle. If the area of the neighborhoods were defined by the different culture or lifestyle, we might have a different view and insight on the way we plan a city. We all know we can find the most Chinese food in a Chinese community, and vice versa. Therefore, I am making an assumption that I can map out the community with different culture background with the locations of the different cuisines. This cultural map of a city can help the urban planner to have a better idea on how the different culture were merging or segregating in a city. On a lighter and smaller contribution, it might be able to help us to find the most authentic food in conjunction with the highest review from yelp.

**DATA MINING TASK:**

I would perform data wrangling and data visualization.

**DELIVERABLE:**

At the end of the project, I would deliver a web app that would run on local server. It would allow the user to select a location as an input. Then the application will use display the cultural landscape map of that city.

**CHALLENGES:**

The main challenge would be performing the data wrangling efficiently and figure out an effective way to visualize the map.

**PLAN OF ATTACK:**

1. Research into urban planning to reinforce the case for the document
2. Research on different data wrangling software and library and find the appropriate one.
3. Research on different visualization library and software and find the appropriate one.
4. Perform data wrangling on the yelp data set
5. Plot figures/chart from the cleaned up and meaningful data set
6. Develop the website
7. Write the documentation

**METHOD:**

1. Clean out unneeded data so the working data would only contain restaurant.
2. Partition the data set into different city
3. Partition the data set into different cuisine
4. Weave out extreme low end data - data with 0 review and 0 ratings
5. Plot the data set with scatter map

**EVALUATING EFFICACY:**

1. Overlay the map with the current neighborhood map of a selected city to check for similarity and possible mistake.

**TASK PARTITION AND COORDINATION:**

All work will be done by Wesley Mao

**TASK LEFT TO BE DONE:**

The task left to be done include the following:

1. Implementation of the data cleaning and wrangling.
2. Visualization testing
3. Web Application set up
4. Documentation

PLAN FOR FINISHING THE PROJECT:

Week 1: Data cleaning and wrangling

Week 2: Visualization

Week 3: Web App

Week 4: Documentation

CHALLENGE AHEAD:

Time will be very tight especially with three other courses.