CS 145 Milestone 1 - ToMEto

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1 Goals

As per our project plan, the two early milestones we wanted to accomplish were:

- 1. Begin data collecting
- 2. Set up storate environments

On the specifics of the milestones, these past two weeks we planned on familiarizing ourselves with the environment, i.e. looking at APIs, figuring out which websites to crawl. Additionally, as per last week's meeting, we set out to investigate

- 1. More of the literature regarding recipe recommendations
- 2. Existing recipe applications
- 3. Obtain data quickly, either by scraping ourselves or asking others

2 Progress

In light of the goals we set out to accomplish, here we describe our current progress.

2.1 Literature

Much of the existing literature uses machine-learning techniques to make recommendations, rate recipes, or make suggestions about substituting ingredients, and due to our limited knowledge in this field, it is

not a path we wish to pursue much further. Consequently, we refine our search for simpler food-related papers. Before we decided on a use case, we perused through a variety of articles, some of which we list and reflect on below:

1. Personalized recipe for healthy choices: http://dl.acm.org/citation.cfm?id=1943487

This describes a prototype for personalizing recipes such that the result returned to the user is nutritious and healthy. This allows the user to specify down to the nutrient level (e.g. vitamins and fibers), and takes information about the user's past meal choices

Geography and Similarity of Regional Cuisines in China

http://journals.plos.org/plosone/article?id=10.1371%2Fjournal.pone.0079161. This is a paper about

2.2 Use case

Because recipe suggestion appears to be largely based on machine-learning, we turned instead our attention a use case that relies less on recommendations, and looks into how food is represented as a graph, and the connections between different ingredients. In particular, we have currently decided to focus on utilizing fusion of cuisines, given that particular ingredients may be cross-utilized in different regions. Therefore, our use case is to:

- 1. User inputs what fusion cuisine they desire
- 2. Result returns a recipe that is from one cuisine, but contains substituted ingredients that exist in a second cuisine, thereby creating a fusion dish

2.3 Data collection & storage

2.4 Front-end APIs