

Mieux a Manger

User Manual

# Background Information

As shown in the summary, due to the large data sizes, it became impossible to set up real time ranking algorithms. So we build python script to parse Yelp data, store the results into JSON, and load the files into a web page.

This approach means that we no longer need to use a web app framework like Django. Instead, we only need to set up the "V" in the MVC pattern. However, building a simple web page dramatically reduces the complexity of the project.

As a result, we decided to learn Facebook's new JS framework React. This framework effectively implements a Controlled View. The View is made of components, which have tools (e.g. on click) that interact with the user. These tools will then send logic to update the page. These updates, however, will only affect specific component of the DOM instead of the entire page. This is one of the reasons why React is special.

However, setting up React, adding loaders, and building components turned out to be extremely time consuming. Thankfully, after building the JSON packages, it is easy to for users to set up and load the web page.

# Setting Up

Since Mieux a Manger is a web page/app that prompts user authentic restaurant suggestions, we must set up the web page locally in order to load the page.

First clone the Github repository and navigate to the “web” folder in command line. Make sure you have “npm” and admin rights as well (otherwise use “sudo npm”). We need to download all the libraries needed to run the web page. So first we install the relevant commands globally by typing:

npm install webpack --global

npm install webpack-dev-server --global

Then let’s download the package we spent hours on by simply typing:

npm install

We can now use “webpack,” a tool that helps bundle everything together, by typing:

webpack

Now let's load the server and keep it running:

webpack-dev-server

You can now locally load the web page via the prompted local host address

# Using the Web Page

Yelp only provided data for certain cities, and we chose to only present top restaurants in Las Vegas. We purposely chose 6 cuisine categories to present: “Chinese”, “Indian”, “Japanese”, “Korean”, “Vietnamese”, “Thai.” The user can use the drop down list to choose the category of interest.

For each category, we present the top 5 restaurants and their corresponding scores. In addition, we build word clouds to show the keywords extracted from reviews using NLP techniques.