# Tourist Advisor

## Introduction

Whenever someone is planning to visit a City for vacation,

* As a first thing they would like to find out the list of places to visit in the city.
* Secondly sort list them based on their popularity and
* Finally plan on how to cover them all during the number of days they are planning to stay in the City.

This tool would be assisting them in doing this planning.

The output of the tool would be the list of places they can visit in each day of their stay. For example, if the plan is to stay for 3 days in a city then the output would be the list of places to visit on day1, day2 and day3. The tool would also display the geographical map of the City along with places to be visited marked. The places are marked with different colors to identify which day to visit them.

## Data

### Foursquare

Foursquare data is the main dataset being used for completing the mentioned job. The following Foursquare Places APIs are used for this purpose.

1. Venues/Categories API: This is to get the list of Venue Categories from the dataset. Based on this list, the travel related Categories are picked up and shown to the user. The User can then select the categories of interest to them to visit.
2. Venues/Explore API: Once the categories of interest is selected, get the list of venues belongs to the selected category. The returned list of venues along with their id, latitude and longitude values are stored in Pandas dataframe.
3. Venues/Details API: The venues returned using the explore API do have the rating and likes fields. In order sort list the places based on the popularity, the two values would be required. Hence this API is used for the venues to get these details.

### Geocoders

This dataset is used to identify the latitude and longitude values of the City being visited.