# WANDERLIST - Your perfect travel itinerary planner
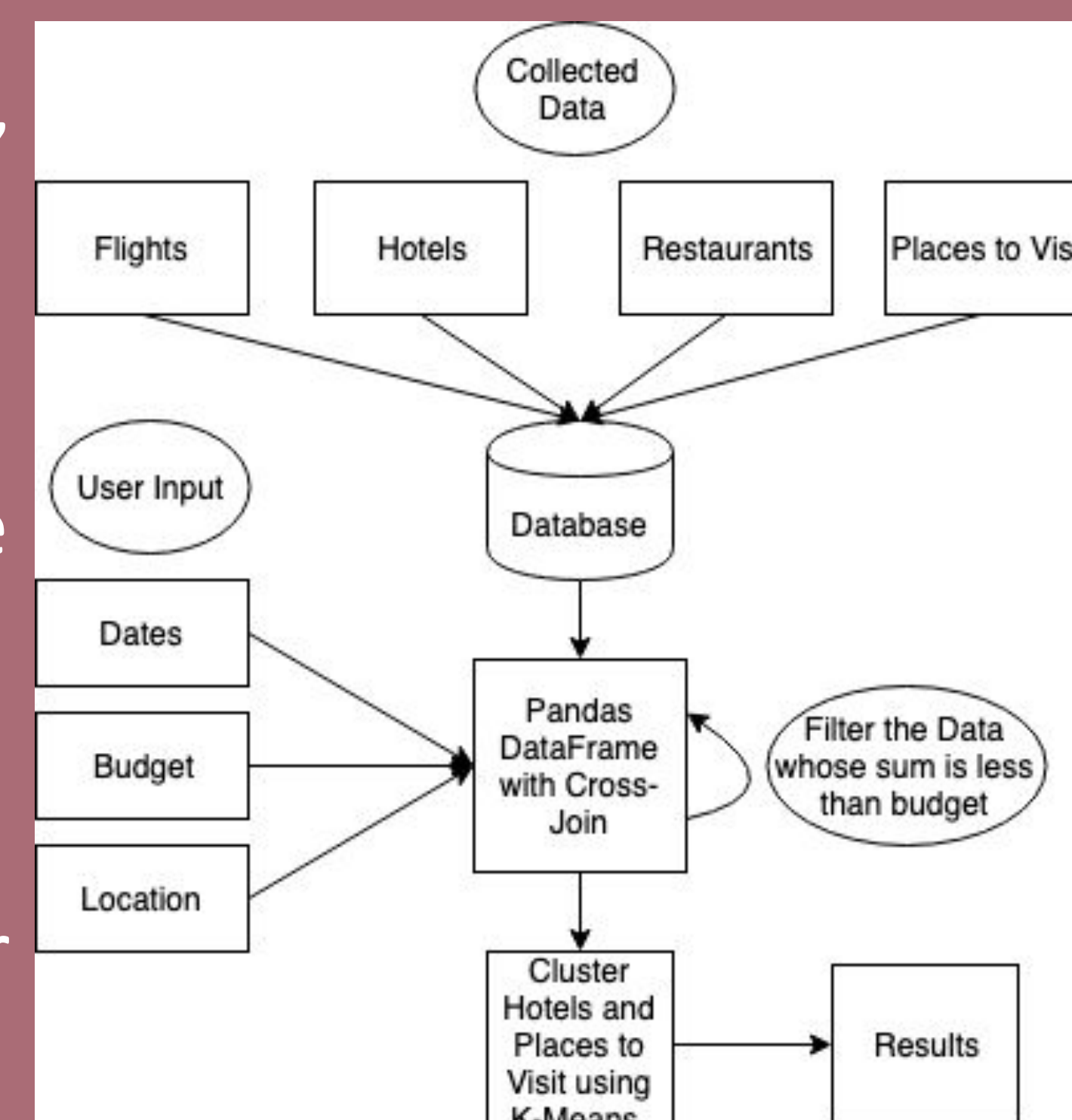
CSE 6242 Team 8 - Sachin Kumar, Vineeth Aljapur, Zainab Arshad, Siddhartha Sharma, Sachin Sarath Y Kothandaraman, Ramit Bharanikumar

**Georgia Tech**

## Motivation

- Planning a tour within a specific budget is a cumbersome problem as many factors need to be considered like dates, flights, hotels and things to do.

- Our current platform integrates travel information from top agencies in each of these fields to provide hassle-free vacations within budget constraints.

- Our platform should be helpful for people who want to minimize travel expenses. This will also benefit travel agents, hotel and restaurant owners who may get offseason customers.
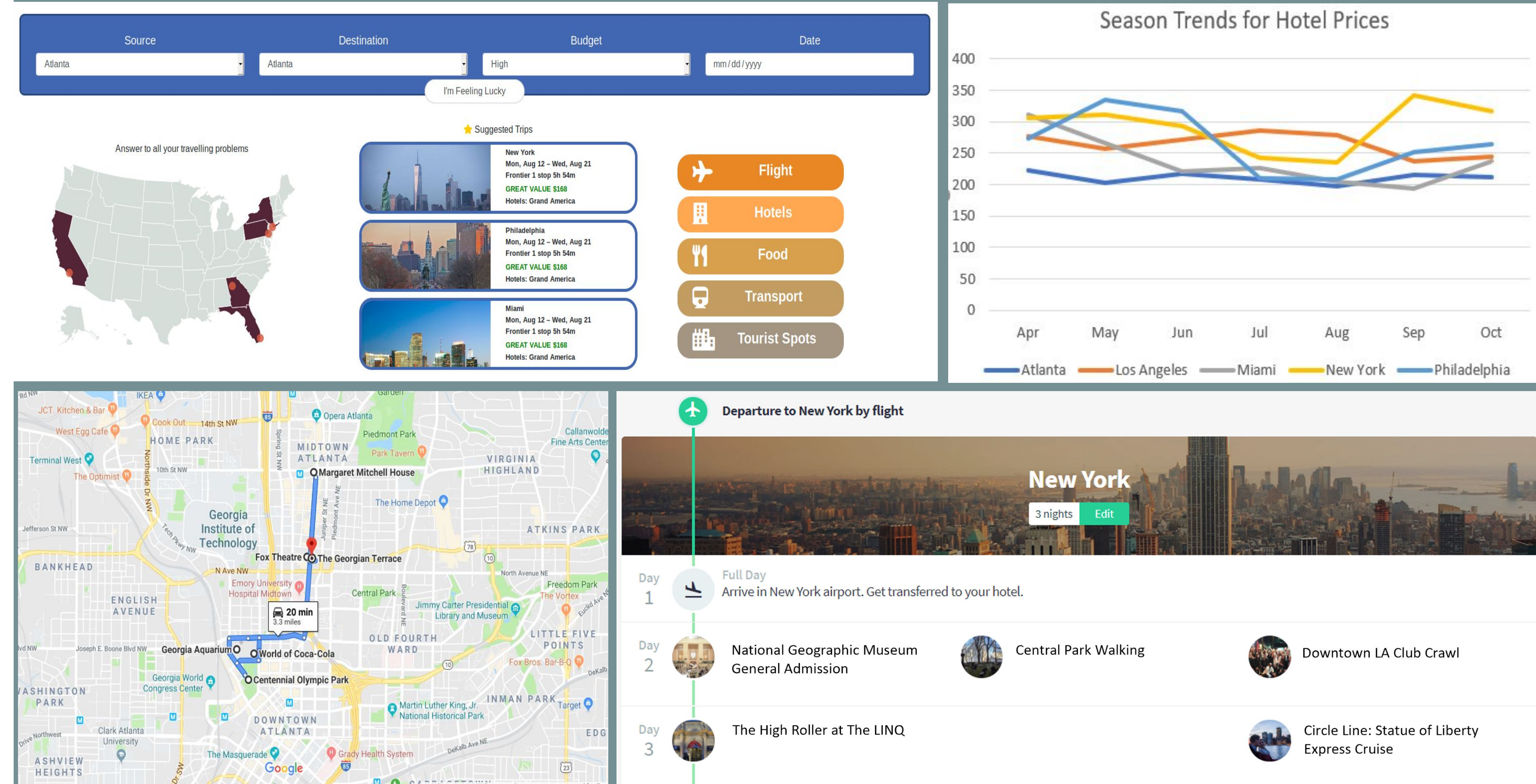
## Approaches

- Input dates and budget are taken and returned are a combination of possible hotels, restaurants and flights that a traveller could take with a specific budget and clustered according to ratings and price.
- Seasonality analysis was carried out where we plotted cost of different listing vs price, to suggest the optimal time for vacation optimised for a minimal budget.
- Our tool is the first to provide a recommender for planning a tour that combines flights, hotels and restaurants data to provide an itinerary thats optimised to be within a budget specified by the user.



## Experiments and Results

- We plotted the hotel prices for next 6 months and found the seasonality so we want to exploit it
- Our method is more holistic when compared to other available tools



Season Trends for Hotel Prices

- We evaluate our predictions by reviews of our users when the website becomes online, we can also evaluate based on the distance between our clusters of hotels and places of interest. We get an estimate of number of reviews to validate our recommendations

## Data and Tools used

- We downloaded the data corresponding to hotels and restaurant using API for popular websites like Tripadvisor and Yelp.
- We get flight information using API called skyscanner which gives the minimum prices and carrier Ids
- Currently we collected data for 5 major cities of US (Atlanta, Miami, New York, LA , Philadelphia)
- Since we are making predictions for future dates, we got temporal data by iterating predetermined start and end dates of travel for next 6 months for our trial version