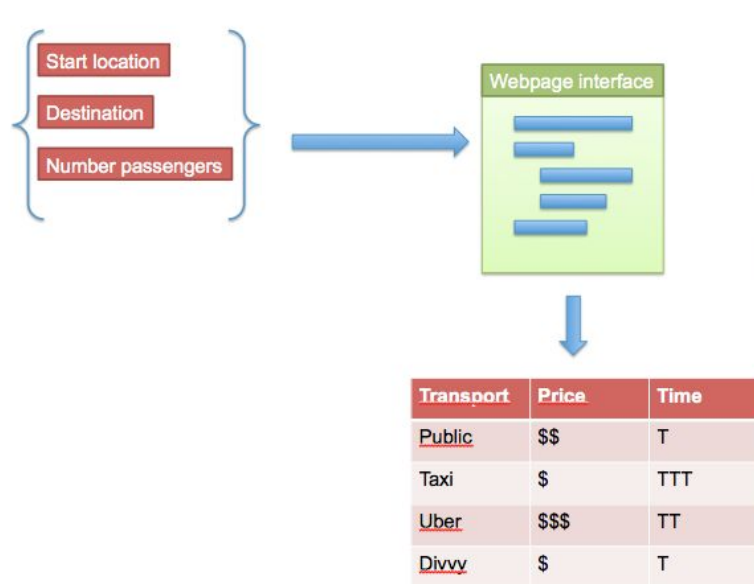


Time and Price comparison for travel in Chicago

Goal:

The goal of this project is to create a website which can give a time and cost comparison for different transportation methods for a given trip in Chicago. The final product should be a webpage into which a user can input the start location, the destination, and the number of travelers to receive time and cost estimates for walking, biking, using public transportation, uber, or a taxi, which they can then use to choose between transportation options.



Data Sources:

Google Maps Directions API:

<https://developers.google.com/maps/documentation/directions/intro>

- Determine drive time and distance for a trip
 - use this and Chicago taxi fares to estimate the cost of a taxi (hard code formula to estimate taxi fare)
http://www.cityofchicago.org/city/en/depts/bacp/supp_info/2012_passenger_information.html
- Determine potential public transportation routes and estimated duration of trip
 - use the number of legs/type of transport to estimate cost of trip (hard code formula to estimate public transportation total cost for all travelers)

Uber API/uber fare estimates website

<https://developer.uber.com/docs/api-overview>

- estimate the time and cost for a given trip on uber

Divvy bikes API

<https://github.com/iandees/divvyapiapi>

- search for nearest bike stations (for pickup location, with available bikes)

New Tools:

We will satisfy the third condition of this project by using the following new tools:

- Google Maps API (Public transportation and taxis)
- Uber API (Uber data)
- Django (create the webpage and interface)

Estimated Timeline:

Goal	Description	Date
Public Transport	Finish coding and gathering data on public transportation using the Google API	Feb.9 (Tues, 6th Week)
Taxi/Uber	Finish coding and gathering data on public taxis and uber rides using both the Google and Uber APIs	Feb. 12 (Fri, 6th Week)
Webpage and Interface	Set up the final webpage and user interface with Django	Feb. 23 (Tues, 8th Week)
Divvy Bikes (Potentially)	If we have the time, we will incorporate data on Divvy bikes to that output of search includes cost and time estimates for this method of transportation	