TREKKIMAP

5-MINUTE TO PLAN YOUR WALK

AT AN UNFAMILIAR WORKING PLACE

INTRODUCTION

- VISITORS TO NEW AREAS FOR BUSINESS PURPOSE MIGHT NOT WANT TO RENT A CAR BUT INSTEAD TAKE TAXIS OR UBER TO THE HOTEL. DURING LEISURE TIME, THEY MIGHT WANT TO TAKE A WALK TO SURROUNDING RESTAURANTS AND ATTRACTIONS. MANY WEB APPS SHOW THESE VENUES BASED ON CATEGORICAL SELECTION OF, FOR EXAMPLE, RESTAURANT OR COFFEE, ETC... THERE IS A NEED TO VIEW A LIST OF LOCAL ATTRACTIONS TO EAT, VISIT, WITHIN A CERTAIN DISTANCE (SAY, 500 METERS) AND THEIR LOCATIONS SO THE TRAVELERS CAN PLAN THEIR WALKING ROUTES AND ACTIVITIES.

- THIS PROJECT WILL PLACE A FOURSQUARE API CALL GET 100 LOCAL ATTRACTIONS WITHIN 500-METER DISTANCE FROM A LOCATION SPECIFIED BY A TRAVELER AND PROVIDE A FOLIUM MAP SO THE TRAVELER CAN APPROPRIATELY PLAN THE WALKING ROUTE (WHERE TO GO FOR SIGHT SEEING, EATING, WATCHING MOVIES, ETC....) IN AN ORDER ACCORDING TO THE TRAVELER'S PREFERENCE.

DATA

THE DATA WILL BE A LONGITUDE-LATITUDE PAIR OF COORDINATE OF A SPECIFIC LOCATION. THIS PAIR CAN BE OBTAINED BY SPECIFYING AN ADDRESS AND PLACING A CALL TO NOMINATIM. OTHER COORDINATES SUCH AS THE POSTAL CODES AND THEIR LATITUDE-LONGITUDE FROM A TORONTO DATA FRAME GENERATED FROM THIS COURSE ASSIGNMENT CAN BE USED.
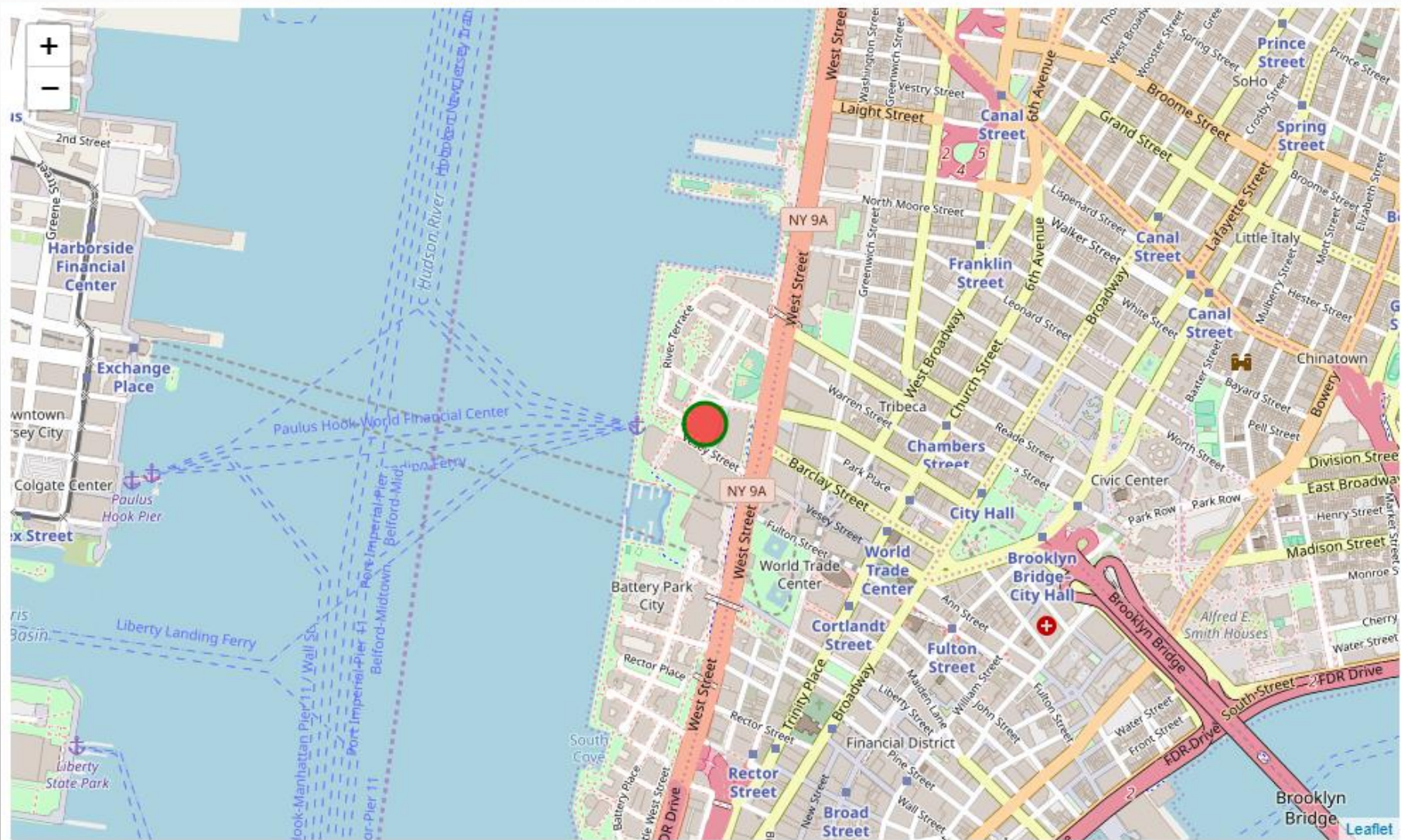
METHODOLOGY

FOURSQUARE API CALLS WITH AN EXPLORE ENDPOINTS CAN BE PLACED TO GATHER A LIST OF CLOSE-BY ATTRACTIONS WITH THEIR NAMES, ADDRESSES, LONGITUDES, AND LATITUDES. THE LIST WILL BE FED INTO FOLIUM MAP TO PROVIDE A VISUALIZATION OF THE VENUES.

FROM THE COORDINATES, A LIST OF VENUES WITHIN A 500-METER WALKING DISTANCE CAN BE GENERATED FROM A FOURSQUARE API CALLS. EACH VENUE CAN BE EXTRACTED TO YIELD THE VENUE NAME, ADDRESS, ALONG WITH ITS LONGITUDE AND LATITUDES. THEN A FOLIUM MAP CAN BE GENERATED WITH THE HOTEL LOCATION AND THE VENUE LOCATIONS AROUND IT.
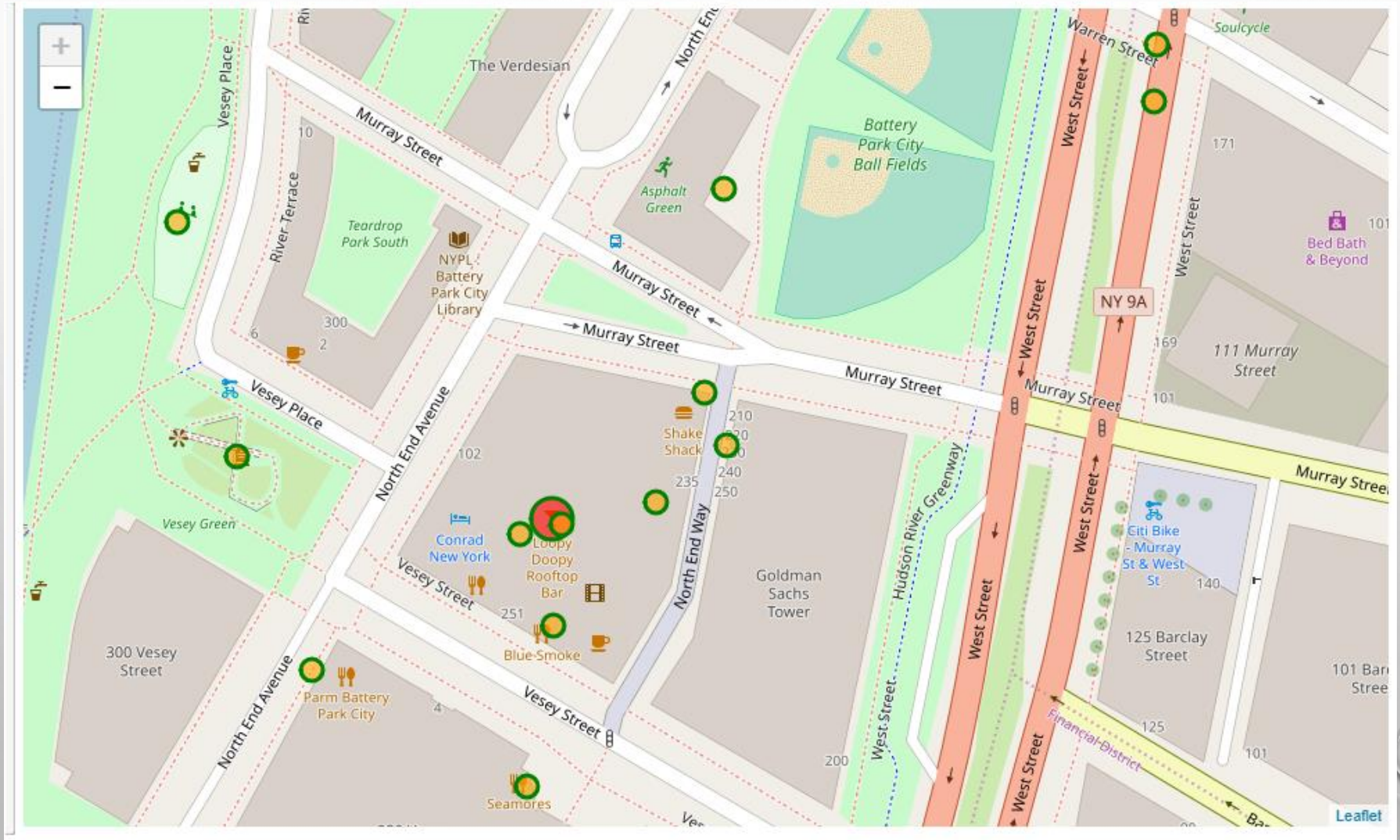
IN THIS EXAMPLE, **102 NORTH END AVENUE, NEW YORK, NY** WILL BE USED

FIRST 10 ATTRACTIONS AND THEIR ADDRESSES

	Names	Addresses	Latitudes	Longitudes
0	Brookfield Place - BFPL	[230 Vesey St (at West St), New York, NY 10281...	40.713204	-74.015619
1	Waterfront Plaza, Brookfield Place	[230 Vesey Street, New York, NY 10281, United ...	40.713241	-74.016241
2	Irish Hunger Memorial	[Vesey St & North End Ave, New York, NY 10282,...	40.715139	-74.016557
3	Asphalt Green Battery Park City	[212 N End Ave (Murray Street), New York, NY 1...	40.715924	-74.014673
4	Shake Shack	[215 Murray St (btwn West St & North End Ave),...	40.715326	-74.014750
5	Regal Cinemas Battery Park 11	[102 N End Ave, New York, NY 10282, United Sta...	40.715004	-74.014935
6	Teardrop Park	[Warren St (btwn River Terrace & North End Ave...	40.716843	-74.015576
7	Conrad New York	[102 N End Ave, New York, NY 10282, United Sta...	40.714911	-74.015461
8	North End Ave Dog Run	[North End Ave (Warren St), New York, NY 10282...	40.716876	-74.016149
9	Winter Garden Atrium	[230 Vesey St (btwn West St & N End Ave), New ...	40.713308	-74.015842

ZOOM-IN OF SURROUNDING AREAS WITHIN WALKING/TROLLING DISTANCE

CONCLUSION & DISCUSSION

IN THE ABOVE MASHED-UP EXPLORATION OF FOURSQUARE API AND FOLIUM API, A BUSINESS TRAVELER CAN DESIGN A WALKING ROUTE/TOUR FOR HIM/HERSELF AROUND THE AREA S/HE IS STAYING.

THE NEXT STEPS OF THE PROJECT

(A) A RECOMMENDING SYSTEM FOR A LIST OF ACTIVITIES WITHIN A CERTAIN TIME FRAME (FOR EXAMPLE, "WHERE TO GO AND WHAT TO DO FOR 4 HOURS FROM 7-11 PM?)

(B) A RECOMMENDING SYSTEM FOR A LIST OF LOCAL CUISINES.