TREKKIMAP

5-MINUTE TO PLAN YOUR WALK

AT AN UNFAMILIAR WORKING PLACE

INTRODUCTION

- VISITORS TO NEW AREAS FOR BUSINESS PURPOSE MIGHT TAKE TAXIS OR UBER TO THE HOTEL. THE VISITORS
  - MIGHT WANT TO WALK AROUND TO DISCOVER THE AREA.
  - MIGHT NEED A BIRD-EYE VIEW OF LOCAL ATTRACTIONS (RESTAURANT, ENTERTAINMENTS, MUSEUMS ETC…) WITHIN A CERTAIN DISTANCE (SAY, 500 METERS) TO PLAN THEIR WALKING ROUTES AND ACTIVITIES.
- MANY WEB APPS SHOW THESE VENUES BASED ON CATEGORICAL SELECTION OF, FOR EXAMPLE, RESTAURANT OR COFFEE, ETC...
- THIS PROJECT WILL PLACE A FOURSQUARE API CALL GET A LIST OF LOCAL VENUES WITHIN A CERTAIN DISTANCE FROM A LOCATION SPECIFIED BY A TRAVELER
- THESE VENUES INCLUDE ALL ACTIVITIES INCLUDING ENTERTAINMENT, FOODS, MUSEUMS, MOVIES, ETC… SO THAT A USER CAN COME UP WITH A WALKING ITINERARY ACCORDING TO HIS/HER PREFERENCE.

DATA

- THE DATA WILL BE AN ADDRESS FOR WHICH A LONGITUDE-LATITUDE PAIR CAN BE OBTAINED FROM NOMINATIM. THIS PROJECT, FOR DEMONSTRATION PURPOSE, USES THE FOLLOWING PARAMETERS:

  - LOCATION: 102 NORTH END AVE., NEW YORK, NY.

  - RADIUS OF WALKING: 500 METERS (OTHER CAN BE SPECIFIED)

  - MAXIMUM NUMBER OF VENUE: 100 (MORE CAN BE SPECIFIED)

- ADDITIONAL DATA WILL BE FROM A CALL USNG FOURSQUARE API TO GET VENUES, ADDRESSES (AND CROSS STREETS), LATITUDES, AND LONGITUDES.
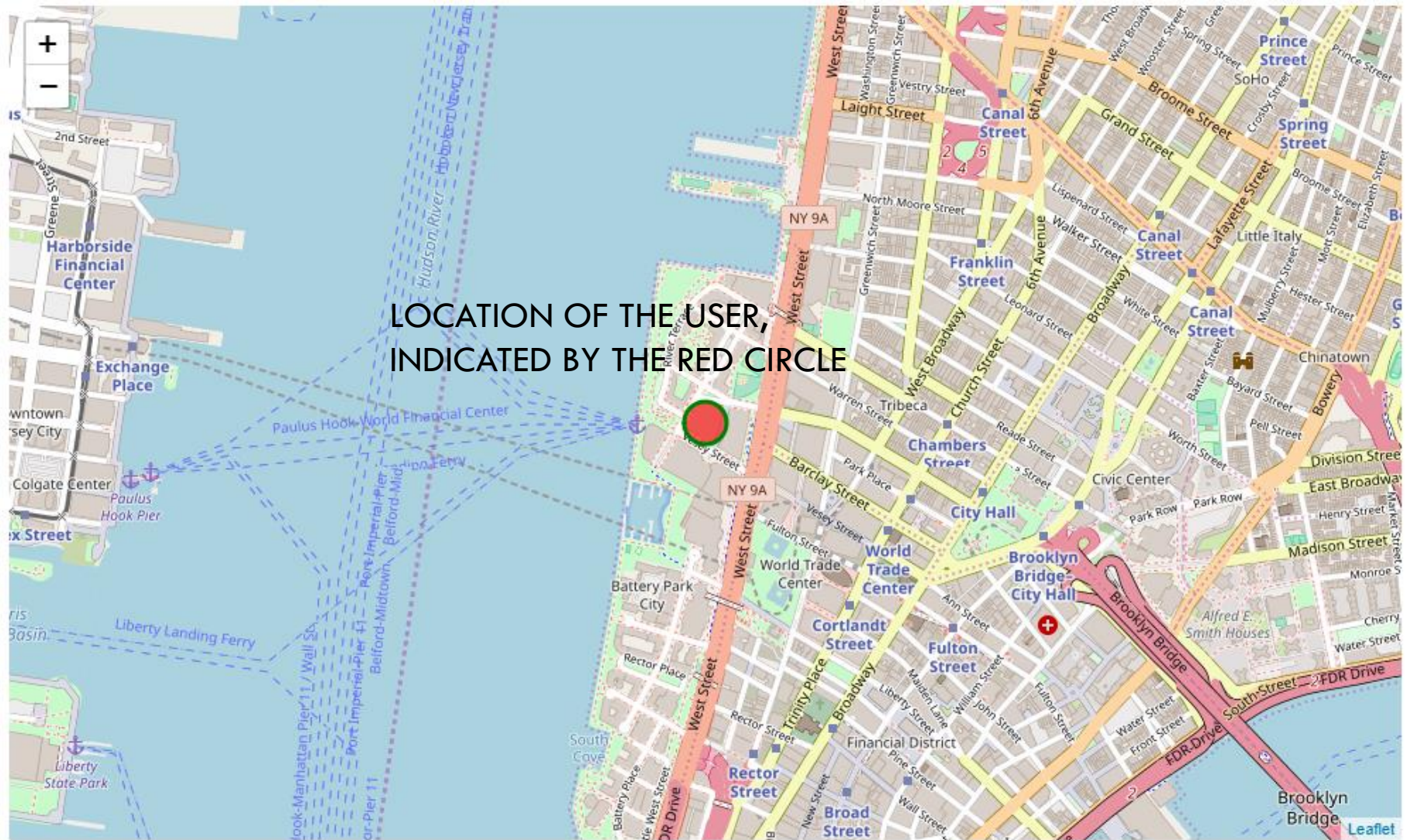
METHODOLOGY

- PLACE A FOURSQUARE API CALLS WITH AN EXPLORE ENDPOINTS

- COLLECT A LIST OF NEARBY VENUES WITH THEIR NAMES, ADDRESSES, LONGITUDES, AND LATITUDES

- CONVERT THE LIST INTO A DATAFRAME SUITABLE FOR FOLIUM

- FEED THE DATAFRAME INTO FOLIUM MAP TO PROVIDE A VISUALIZATION OF THE VENUES.
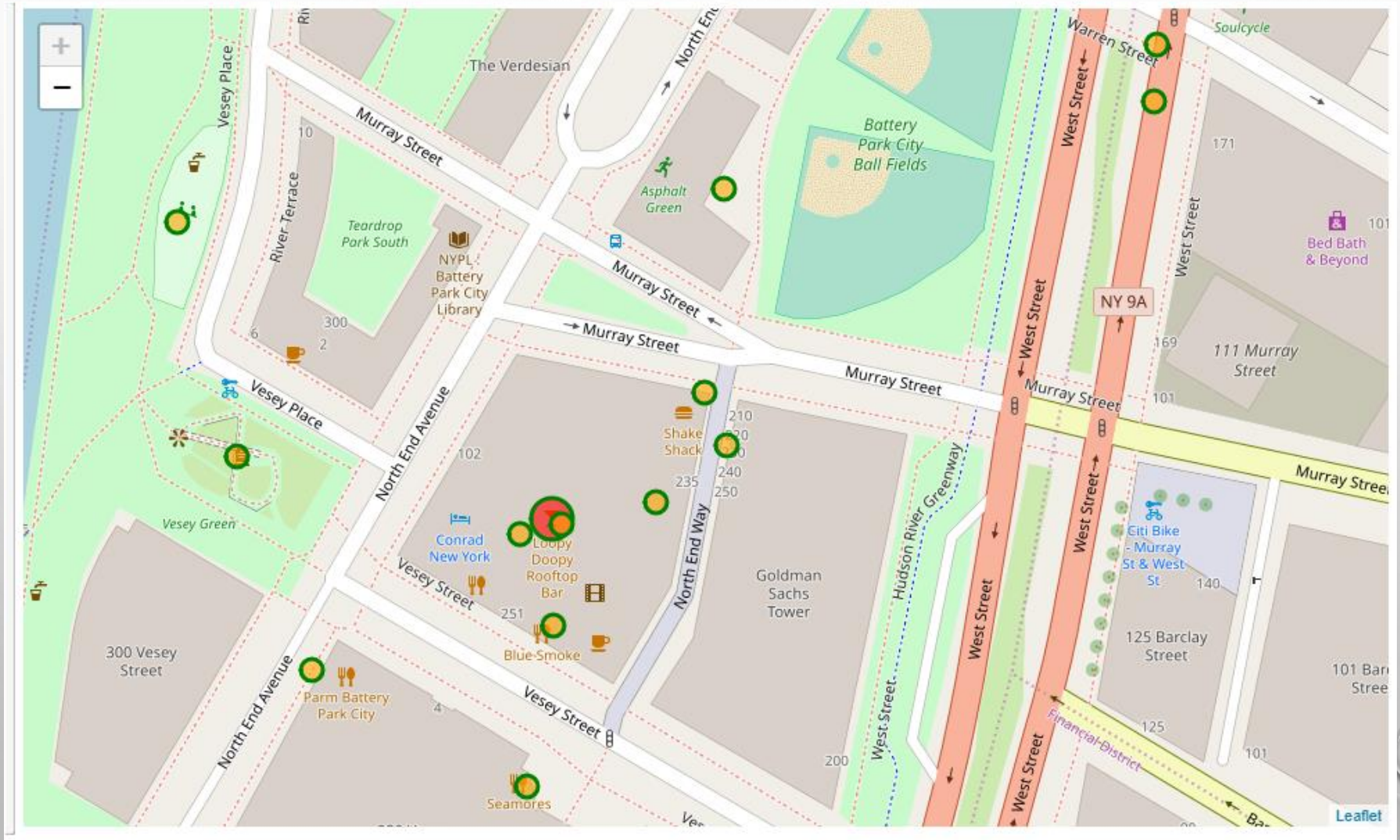
SAMPLE OF VENUES AND DATA FROM FOURSQUARE

	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

LOCATION OF THE USER, INDICATED BY THE RED CIRCLE

MAP OF VENUES AROUND THE USER
INDICATED BY THE SMALL ORANGE CIRCLES

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.