

# TextWifi

Accessible WiFi for all

# TextWifi: Accessible Wifi for All

## Login

Enter email and password to log on:

Sign in!

## Sign up now

Fill in the form below:

Sign me up!



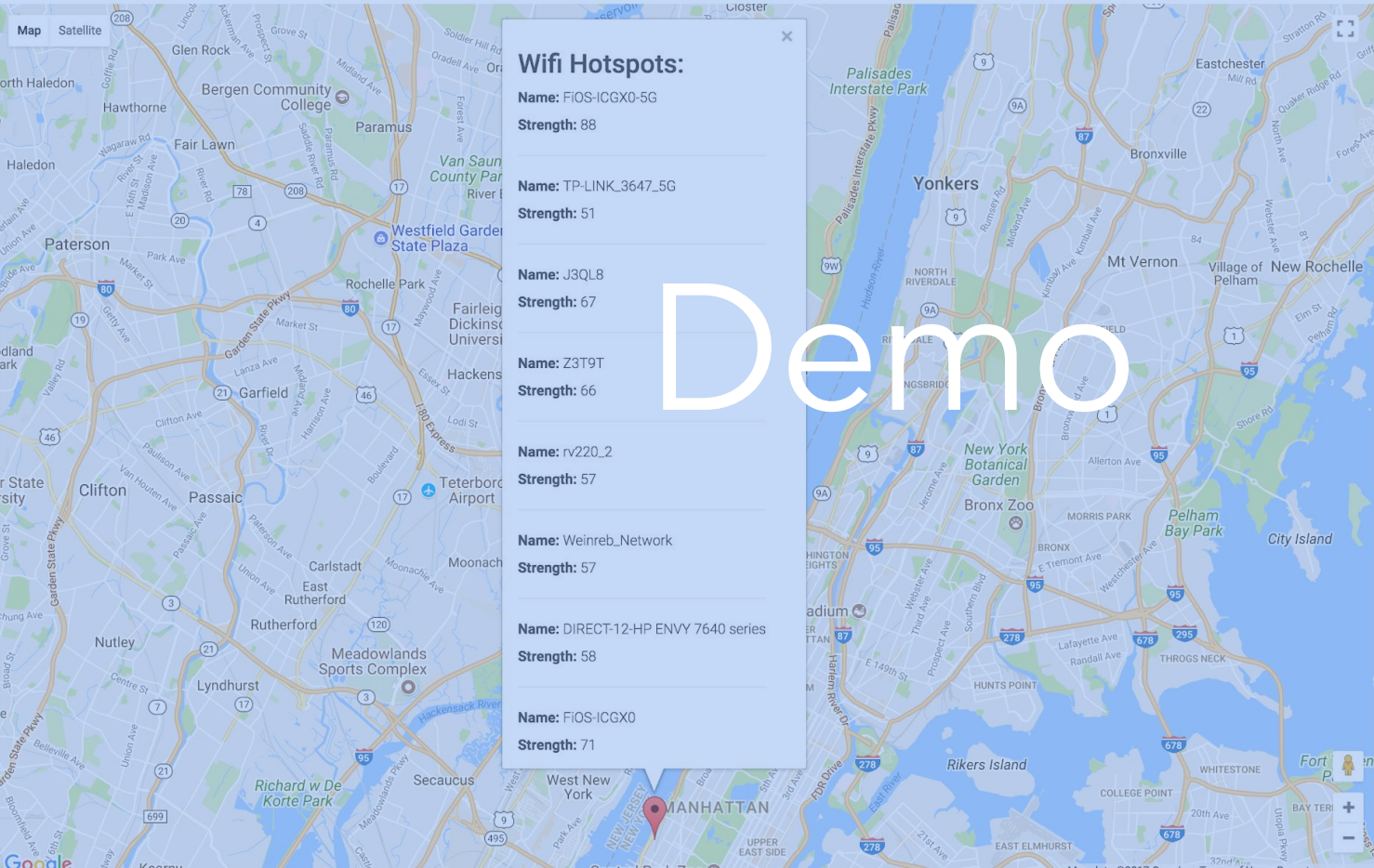
# Core Vision of TextWifi

- overcharging of unlimited plans + Internet makes up significant cost of utilities
- on-the-go lifestyle of New Yorkers + college students
- untapped sources of wifi
  - public networks, e.g. LinkNYC, Downtown Brooklyn, MTA
  - private guest networks, e.g. Starbucks, Columbia University
- connecting community + connecting to Internet

= Accessible Wifi for all

# How it works

- sharing economy-inspired
- seamless + non-intrusive
  - web application runs script to identify available networks at user location
  - indexed + aggregated in database
  - database accessed to identify nearby hotspots
- active + updating database
  - based on user location, networks are updated to most current, available networks
- visual + intuitive UI with SMS support
  - map display
  - networks texted to phone for ease of transport



### Wifi Hotspots:

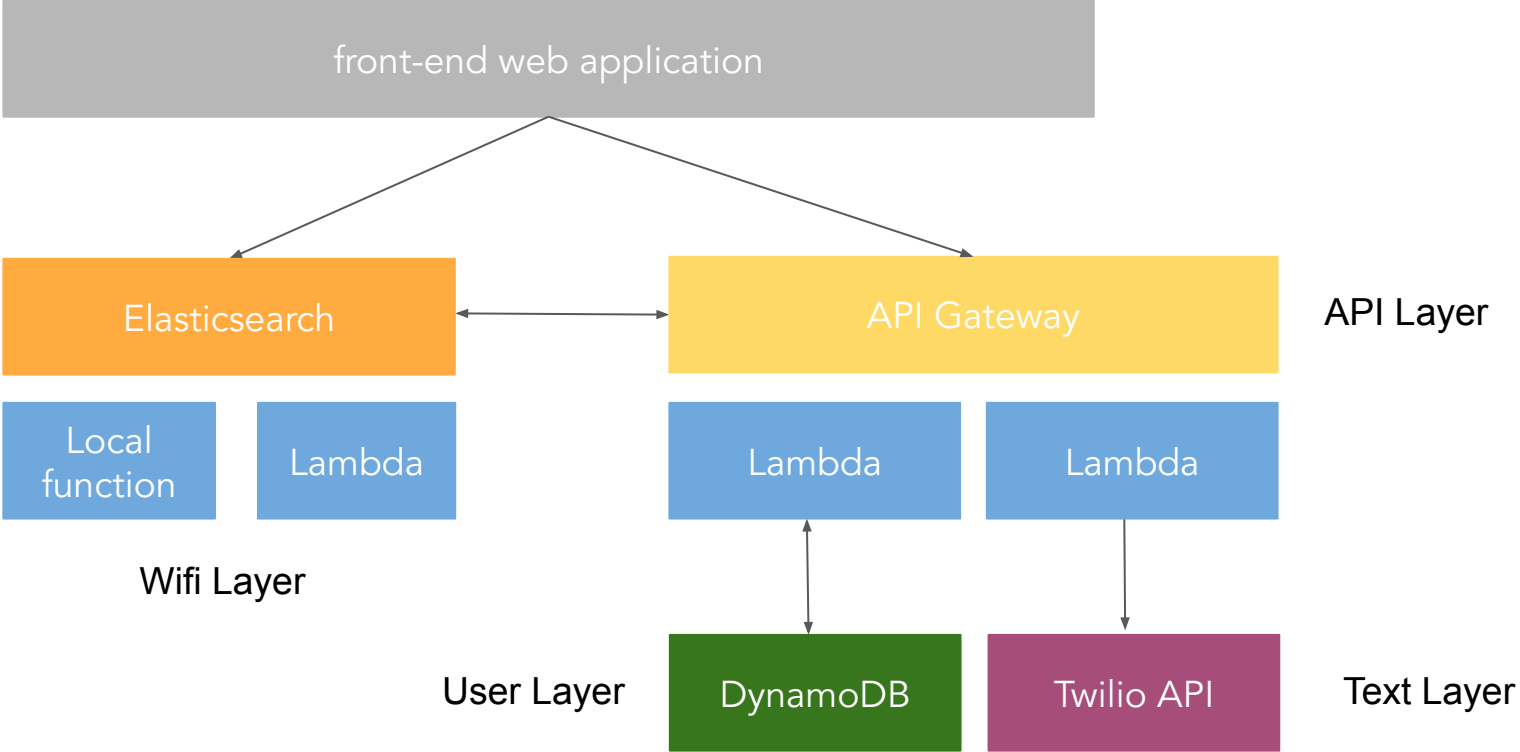
- Name:** FIOS-ICGX0-5G  
**Strength:** 88
- Name:** TP-LINK\_3647\_5G  
**Strength:** 51
- Name:** J3QL8  
**Strength:** 67
- Name:** Z3T9T  
**Strength:** 66
- Name:** rv220\_2  
**Strength:** 57
- Name:** Weinreb\_Network  
**Strength:** 57
- Name:** DIRECT-12-HP ENVY 7640 series  
**Strength:** 58
- Name:** FIOS-ICGX0  
**Strength:** 71

Wifi Name	Strength
FIOS-ICGX0-5G	88
TP-LINK_3647_5G	51
J3QL8	67
Z3T9T	66
rv220_2	57
Weinreb_Network	57
DIRECT-12-HP ENVY 7640 series	58
FIOS-ICGX0	71
TP-LINK_3647	41

Text It To Me!

# Implementation and Features

- User Signup and Login:
  - Lambda POST to create user in DynamoDB, GET to get user from DynamoDB (with phone number)
- Map View
  - Overall web app in Python/Flask
  - Current Location:
    - Runs Python script locally to generate wifi spots
    - Lambda POST to upload to ElasticSearch
  - Any Location:
    - Lambda GET to get results from Elastic Search at radius around point
- Text Message
  - Lambda to call Twilio API and text any location's wifi to user







Q&A