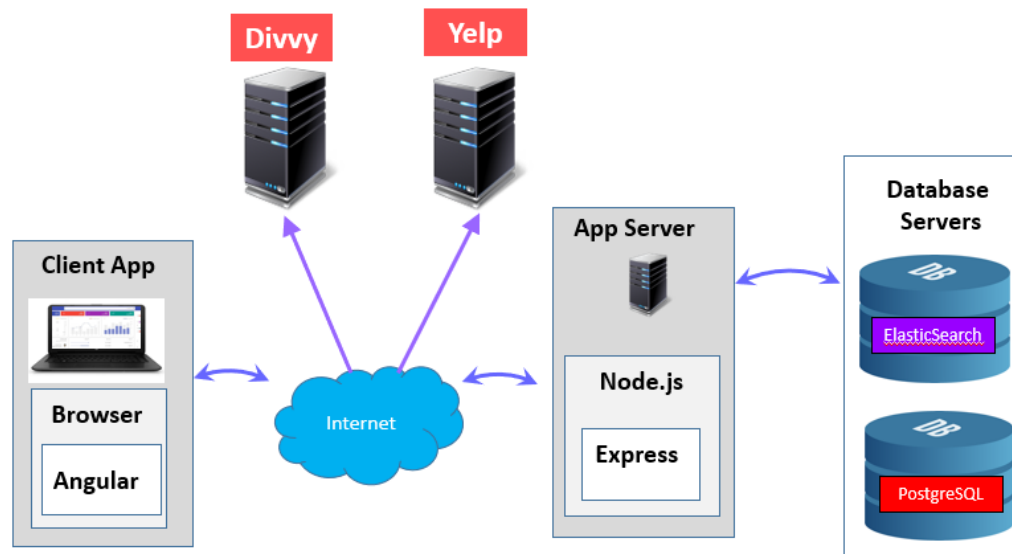# ChicagoSocialHub App

Technologies:

ChicagoSocialHub is a web-based real-time app that uses the following technologies:

1. Angular
2. Node.js/Express
3. PostgreSQL – to store Divvy station status
4. ElasticSearch – to store Yelp reviews for Chicago Businesses

Architecture:

ChicagoSocialHub utilizes the MVC architectural pattern:

Tools and Environment Setup & Installations

Install the following tools before you attempt to build and run the web-based application:

1. Anaconda (Python 3.11): https://www.anaconda.com/download/
2. Visual Studio Code: https://code.visualstudio.com/download
3. Node.js/express (16.20): https://nodejs.org/en/download/
4. Angular CLI (14.20): npm install -g @angular/cli
5. PostgreSQL (14 or 15): https://www.postgresql.org/download/
6. ElasticSearch (7.14.0): https://www.elastic.co/downloads/elasticsearch

How to Build and Run

1. Create your Yelp API Key and update the ipynb script with that key
2. Create your Google Map API Key and add your Key to the client/Angular frontend file, app.module.ts.
3. Run ChicagpSocialHub-Yelp.ipynb to create an index to Chicago Business on ElasticSearch
4. Execute the following commands from the command line window/terminal:
    4.1. Start ElasticSearch: server from the command prompt
    4.2. Start node.js server: node server
    4.3. Start Angular client: ng serve –open