ChicagoSocialHub App

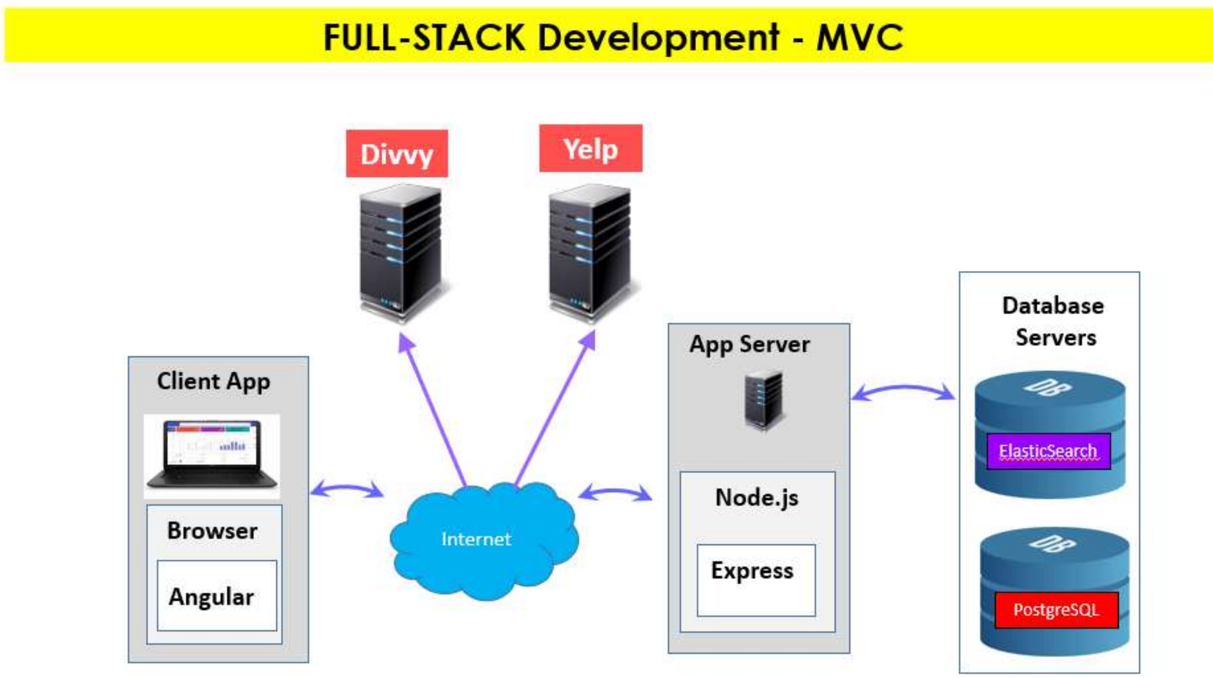
Technologies:

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

1. Javascript: platforms and browsers that are compliant with ECMAScript 2015 scripting 2015, (ES6): http://www.ecma-international.org/ecma-262/6.0/
2. Python 3.7
3. Angular 7
4. Node.js/Express
5. PostgreSQL – to store Divvy station status
6. ElasticSearch – to store Yelp reviews for Chicago Businesses

Architecture:

ChicagoSocialHub utilizes the MVC architectural pattern:



Tools and Environment Setup & Installations

The following platforms/technologies and tools are needed in order to build and run ChicagoSocialHub web-based application:

1. Javascript: platforms and browsers that are compliant with ECMAScript 2015 scripting 2015, (ES6): http://www.ecma-international.org/ecma-262/6.0/
2. Chrome and Firefox releases that are ES6 compliant. List of browsers/platforms that support ES6 can be found under *modern browsers* link (http://kangax.github.io/compat-table/es6/) on this URL: https://developer.mozilla.org/en-US/docs/Web/JavaScript
3. Java/JDK 11: https://www.oracle.com/technetwork/java/javase/downloads/jdk11-downloads-5066655.html
4. Python 3.7: https://www.python.org/downloads/
5. Angular 7: https://angular.io/
6. Anaconda: https://www.anaconda.com/distribution/#download-section
7. visual studio code: https://code.visualstudio.com/download
8. Node.js/express: https://nodejs.org/en/download/
9. Angular CLI: npm install -g @angular/cli
10. PostgreSQL: https://www.postgresql.org/download/
11. ElasticSearch: 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