Change Plan of Open Data Syracuse

Change Objectives

1. API Connection Feature
2. Search Bar Auto-Fill Feature
3. Website Graphic Design Improvement

All the functional objectives should be tested in web pages independently. The implementation and integration stage of the web app will happen after a successful testing resting.

API Connection Feature

Method

1. Connection with RESTful API using JavaScript, and data will come from those two sites:
   a. http://data.syrgov.net/datasets/code-violations/geoservice
   b. http://data.syrgov.net/
2. Extract information from the JSON type dictionary file using key and value;
3. Represent data in text format

Change Impact

1. Without updating data file repeatedly and extracting information from the file, the site will load faster. The server will have less pressure.
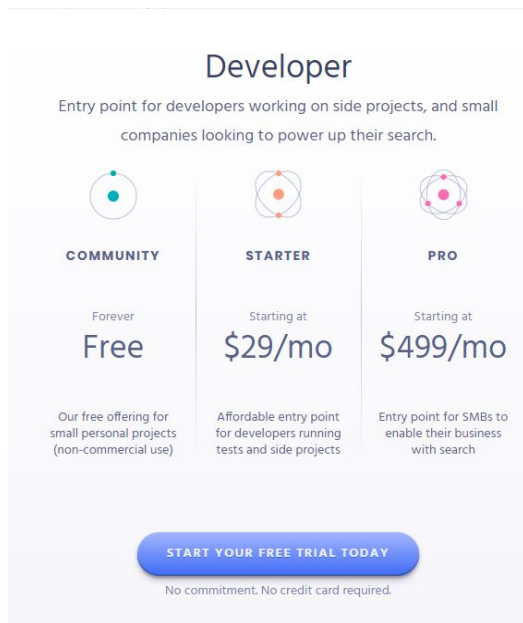2. Web developers can focus on the algorithm rather than manage files.

Search Bar

Currently we are looking at implementing Algolia's service — InstantSearch.js.
Demo Page (Shortened Link): https://goo.gl/7Wj3iq

Method

1. Algolia Guide Document (Shortened Link):
   https://goo.gl/EFwHN8
2. Algolia > Community > InstantSearch.js Guide (Shortened Link):
   https://goo.gl/14XT4c

Change Impact
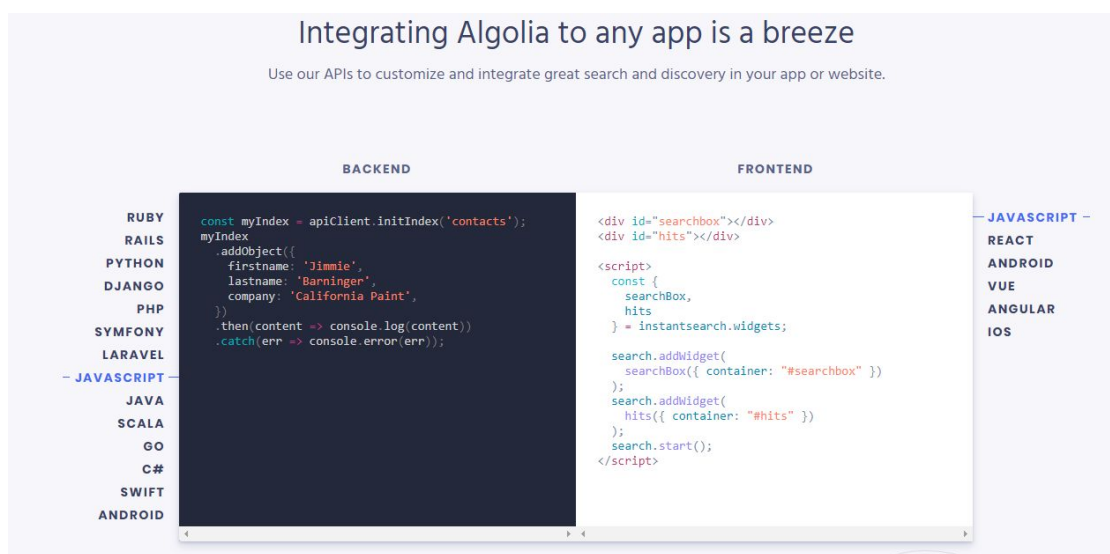
1. The service is free. It will have no impact on the budget. The graph shows the price plan of Algolia.

2. Quick search will increase the web accessibility, and users can find information quickly, with unfinished input or typo. The following shows the coding demo of the websitee.

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Design

It is the last part of the project, after the positive testing result of functions of API connection and auto-fill search bar. The interface of the web should be user-friendly, neat and comfortable. The design styles will follow the example of Rentlogic.com.

Method

1. For the early stage of the web development, the page design will be simple as we need to focus on the functions. For instance, on one page, we will have a design of search bar. On another page, there will be only an input prompt or box that user can input full address to return information.
2. For the later stage, we will redesign the website according to RentLogic, after adapting contents and color schemes.
   a. https://rentlogic.com/
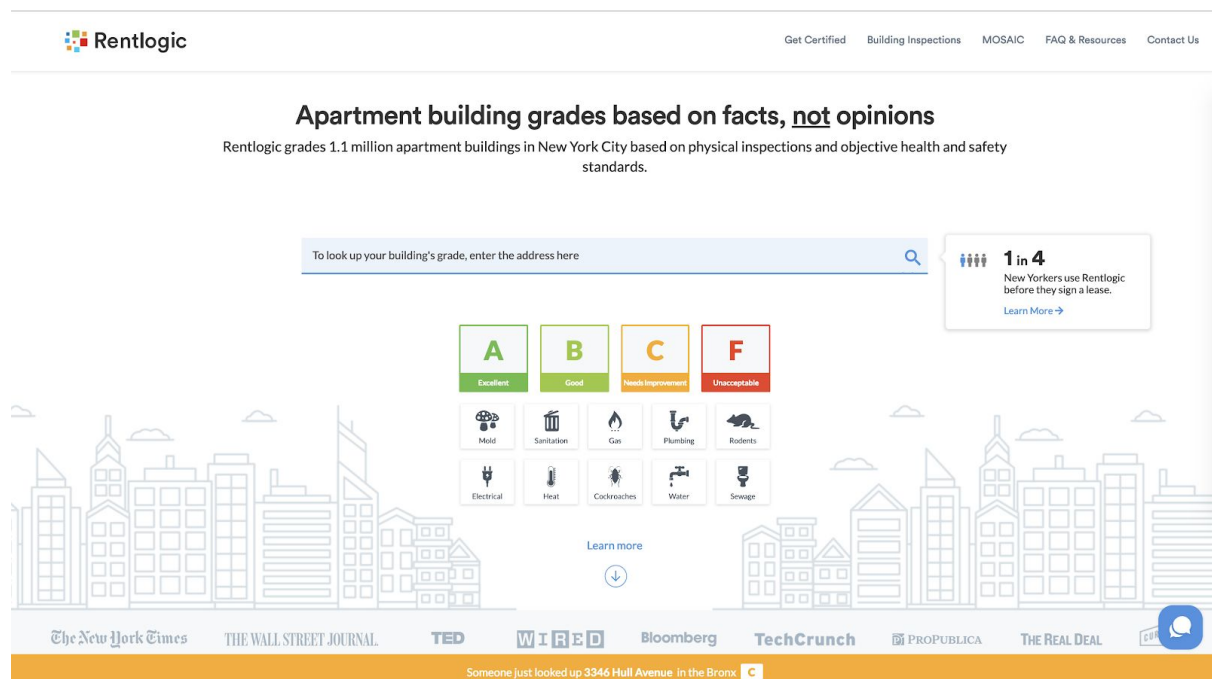
Change Impact

1. The new web deign increase web accessibility.
2. The user will be more comfortable to navigate in the websit.