Potential use cases to keep in mind:

-Creating polygon on the map, creating markets

-Finding all address in that market – SQL server

-Finding if a single address exists in that market

-Filtering if a list of address includes is within a polygon

|  |
| --- |
| **Google Maps API**   * Set of API’s and SDKs managed from Google Cloud Platform Console   How we might use the tool:   * **Drawing Tools Library** – allows user to draw polygons * **Poly**.Util -- * Geocoding Service – entering the latitude and longitude determines where address is on map * Javascript – allows for customizations   Pros:   * Drawing out the key markets is intuitive and easy * Google maps is an interface that’s familiar to everyone   Requirements:   * Billing account * Project * 1+ APIs and restricted API key |

|  |
| --- |
| **Shapely**   * Set of API’s and SDKs managed from Google Cloud Platform Console   Requirements:   * Billing account * Project * 1+ APIs and restricted API key   How we might use the tool:   * Drawing Tools Library – allows user to draw polygons/ * Geocoding Service – entering the latitude and longitude determines where address is on map * Javascript – allows for customizations   Pros:   * Drawing out the key markets is intuitive and easy * Google maps is an interface that’s familiar to everyone |

|  |
| --- |
| SQL Server   * Using the Geometry   Requirements:   * Billing account * Project * 1+ APIs and restricted API key   How we might use the tool:   * Once we have a list of lat/long turn them into a polygon * See if a point we pick is within that polygon   Pros:   * SQL server is familiar, easier to track changes and uses in the back end * Software already exists   Cons:   * Usability for everyone |

|  |
| --- |
| Leafly and Open Street Maps   * JS Library for creating maps – open source   Requirements:   * Uses Open Street maps to create polygons and other shapes using vector layers * GEOJSON   How we might use the tool:   * Once we have a list of lat/long turn them into a polygon * See if a point we pick is within that polygon   Pros:   * SQL server is familiar, easier to track changes and uses in the back end * Software already exists   Cons:   * Usability for everyone |