**Breakdown of API’s**

**Leaflet – JavaScript**

* Serves up the map to the site with a call of the map function. Can change the map type displayed, right now just the base OSM map is displayed.
* Creates and manages all markers on the map with createMarker function.
* Handles line creation on the map with polyline function.

**Flask – Python**

* Runs the website
* Handles all of the http GET and POST requests.
* Handles all the passing of data to and from the pathfinder algorithm and the front-end user input. This includes things like markers and checkboxes. Data is passed back and forth in the form of a JSON between flask API and JavaScript.

**OSMPythonTools – Python**

* Allows us to access OpenStreetMap data to pull into our own Database.
* We pull in data of all the paths of Kalamazoo/Portage.
* Mainly used for getting latitudes, longitudes, and Names of roadways.
* Pulls in all the appropriate data needed to find the path. This data includes oneway, cycleway

**MySQLConnector – Python**

* Connects to the database.
* Creates a cursor for handling SQL queries and results.
* Handles the appropriate SQL queries to the DB when doing the pathfinding.
* Returns data to the DBinterfacer class by calling fetch on the cursor.