This document includes a list of functional and non-functional requirements for the Database Migration project.

Functional:

User Interface:

The User Interface is written in angular.js.

The user can create data points.

The user can modify data points.

The user can delete data points.

The user can use a mouse to pan the interactive map to see the locations of various data points relative to the map.

The user can generate reports based on one or more data points or fields.

The user can generate queries based on one or more data points or fields.

The user can access the user interface at any time.

Only NYC DOT Traffic Ops employees can have user access to the interface.

Database:

The database can send information to the UI at any time.

The database can receive information from the UI at any time.

The database can react to data requests from the front end in real time.

The database contains all data points parsed from the old database.

Non-functional:

User Interface:

The forms present on the UI should be intuitive to most users.

The UI should have a minimum level of visual decoration and should not be barebones.

Users should be able to load the UI from scratch in 3 seconds or less.

Database:

The database should respond to data requests with a latency of no more than 3 seconds.

The database and its responses should not slow down by more than 1 second if all users are accessing it at the same time.