# Translink Parser Planning

## Gabriel Brown – 4641121

To plan the program control flow of the translink parser application, a flow diagram was created to map each .csv and .json file with its contents, the relationships between each file, and the functions that would be used or required in order to filter and search the data appropriately.

The basic program flow would be to filter all static data by only data relevant to the specified UQ Lakes stops. Then, this filtered data would be searched to return data for trips arriving in the next 10 minutes. Finally, this searched data would be used to fetch the live data for each of those arriving trips. This data would then be output to the user.

This document highlighted the different locations where data would need to be accessed in order to output the correct data. The output data required information that was stored in five different locations: three static files and two live files.

Planning this document was extremely helpful in understanding the format of the live JSON data, as this data contained cascading objects and arrays that would require a great amount of recursion to access.

A copy of the created flow diagram can be found in the PDF file included in this folder, titled ‘translink flow diagram.pdf’. However, the size of this diagram is quite large, and may be difficult to read. As such, an interactive version of the diagram can be found here (<https://t.ly/MWbQU>). This online diagram can be magnified to be easily viewable, and the boxes containing information on each dataset can also be minimized to allow for a tidy view.