2 Data Description

2.1 Data Sources

In order to research safety and neighborhood, the open data of Crime Rate of Toronto and to get the housing price, Housing Market Trend will be collected and manipulated. The data file will be csv format for numbers and charts and geojson format for presenting locations.

2.2 Data cleansing

The data will be grouped and cleansed by Police Boundaries such as D11, D51 in Toronto. The year of data will be used for the last two years but it will be depended how big the dataset is. If possible, full dataset will be applied in case of Crime Rate. The dataset will be separated by the type of Crimes such as Assault, Break and Enter, Auto Theft and Robbery etc. for presenting charts and locations.

2.3 Data Table

The dataset will be reconfigured as below, and the data will be grouped by Division. After then the location data will also be merged into this table.

Division Hood_ID Neighbourhood Assault_2018 Assault_2017 1 D53 97 Yonge-St.Clair 61 46 2 D31 27 York University Heights 138 120 3 D32 38 197 226 Lansing-Westgate 4 D32 31 Yorkdale-Glen Park 127 124 5 D22 16 Stonegate-Queensway 128 112 D42 Tam O'Shanter-Sullivan 57 6 118 56

Table1. Sample Data Table

Table2. Merged Data Table

	Division	Neighbourhood	Assault_2018	Assault_2017	Lat	Long
1	D53	Yonge-St.Clair	61	46	43.7219	-79.4016
2	D31	York University Heights	138	120	43.7500	-79.5023
3	D32	Lansing-Westgate, Yorkdale-Glen Park	324	350	43.7701	-79.4131
4	D22	Stonegate-Queensway	128	112	43.6150	-79.4942
5	D42	Tam O'Shanter-Sullivan	56	57	43.8199	-79.3130