1. Application Navigation

Time Period Selection
Users can use the time period slider to filter the date to what might be relevant to them. After sliding the sliding give approximately 5 seconds for the graph to be reloaded.

Crime Type Selection
Users can select the different crime type they are interested in to view the numbers represented in the Crime Count Bar chart and Crime Rate Line graph, the map would also show the choropleth of the selected crime rate

Neighbourhood Selection
Users can use the time period slider to filter the date to what might be relevant to them. After sliding the sliding give approximately 5 seconds for the graph to be reloaded.
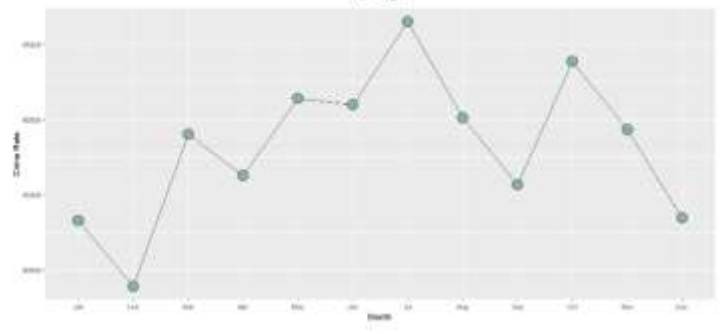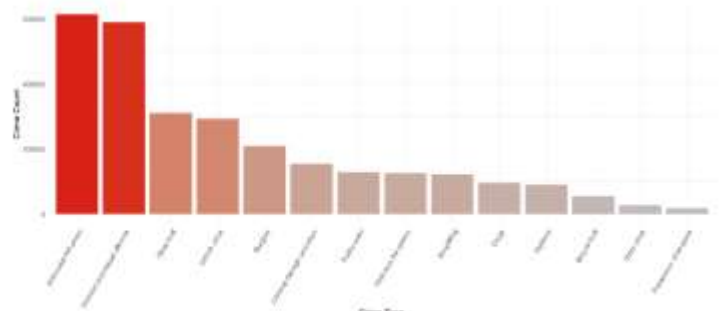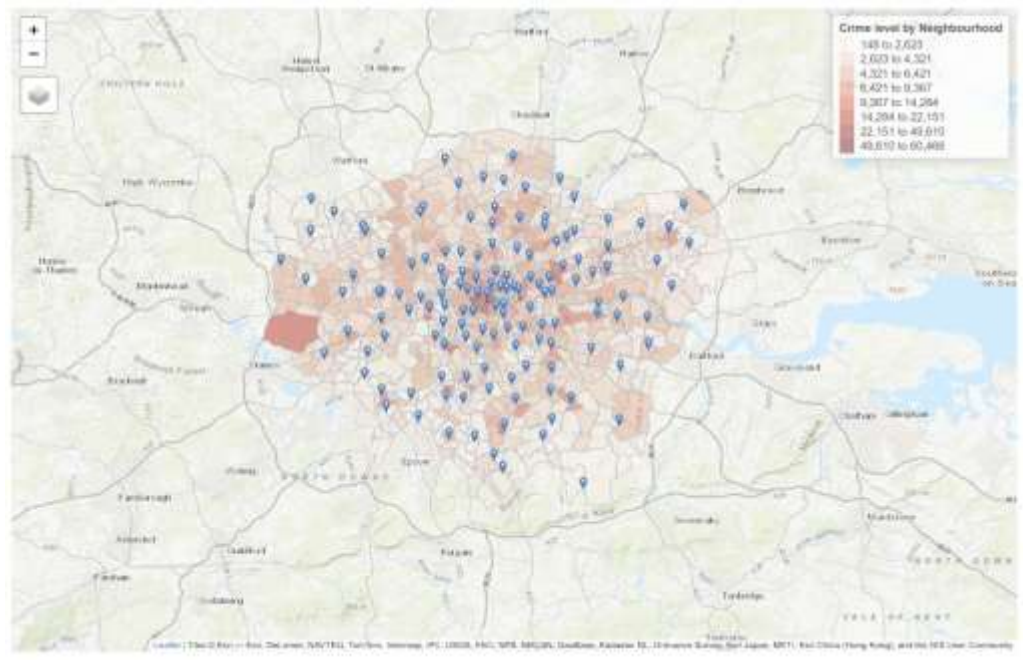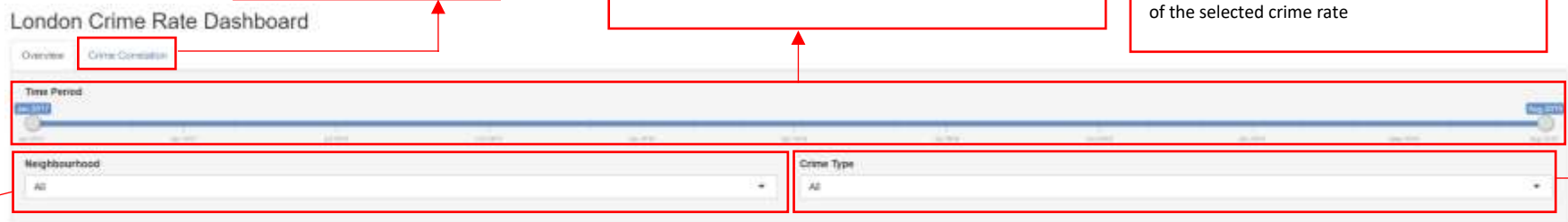
2. Choropleth Map (1st Tab)

+/- Button
+ helps to zoom into the map
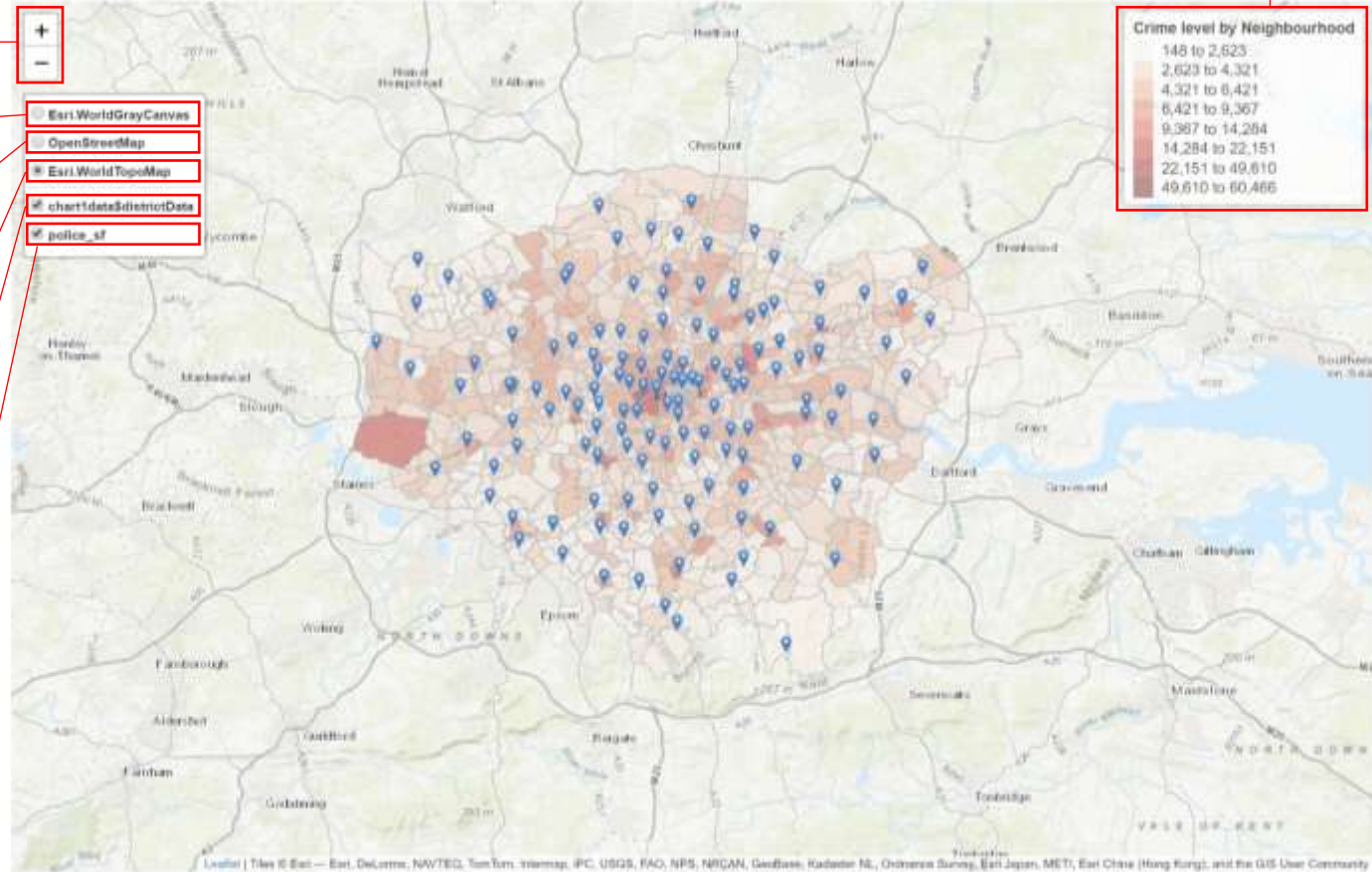**-** helps to zoom out of the map

Esri.WorldGrayCanvas Button
Displays the map on a grey canvas

OpenStreetMap Button
Display the streets and roads and infrastructure

Esri.WorldTopoMap Button
Display the topography map

Char1data$district Button
Display the choropleth map

Police_sf Button
Display the blue marker, which represents the police station

Map Legend
Shows the colour corresponding to the range of crimes committed

+

−

○ Esri.WorldGrayCanvas
○ OpenStreetMap
● Esri.WorldTopoMap
☑ chart1data$districtData
☑ police_sf

Crime level by Neighbourhood
148 to 2,623
2,623 to 4,321
4,321 to 6,421
6,421 to 9,367
9,367 to 14,284
14,284 to 22,151
22,151 to 49,610
49,610 to 60,466

3. 2nd Tab Filters

Overview
Navigates back to the 1st Tab

Time Period Selection
Users can use the time period slider to filter the date to what might be relevant to them. After sliding the sliding give approximately 5 seconds for the graph to be reloaded.

Neighbourhood Selection

Users can use the time period slider to filter the date to what might be relevant to them. After sliding the sliding give approximately 5 seconds for the graph to be reloaded.
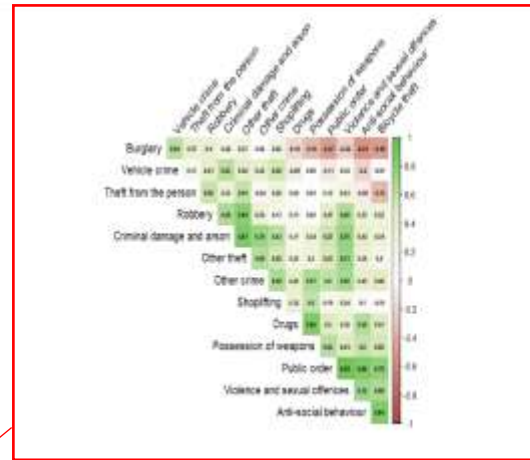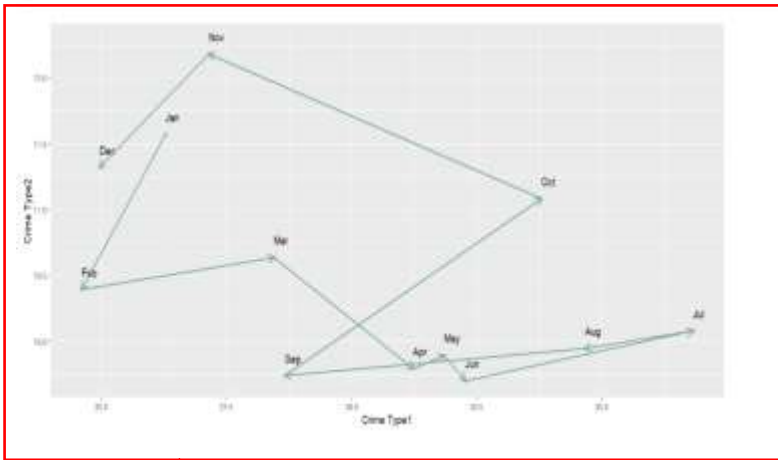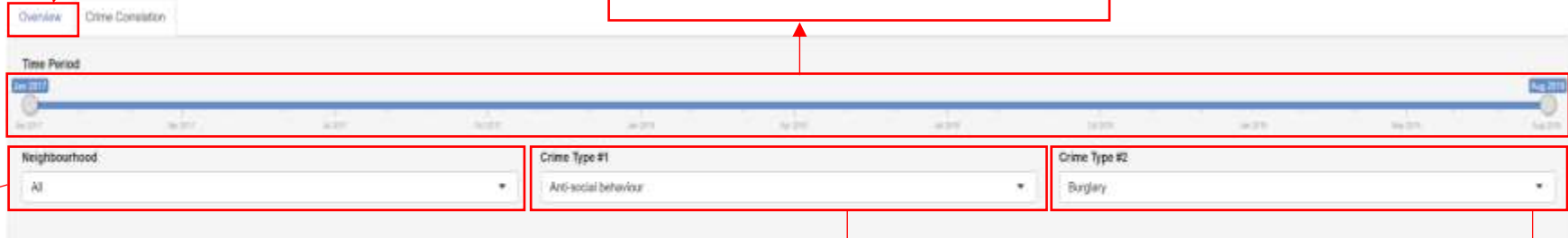
Seasonal Line Graph
With the 2 crime types being selected, users can use this graph to immediately determine during which months does the two crime occur the most. Hence being able to take extra precaution and safety measures.

Correlation Plot
Users can use Colour coding to quickly identify which crimes has positive correlation hence being able to select crime type #1 and crime type #2 quickly.
Green represents the 2 crime being positively correlated
Red represents the 2 crime being negatively correlated
The darker the colour the more corelated they are.

Crime Type #1 & Crime Type #2
Users can select the different crimes in crime type #1 and crime type #2 to find the correlation between the selected crime type. Seasonal patterns can be determined by the line graph displayed on the left. Correlation can be read from the graph on the right.