**COVID\_ALERTS**

1. **Description**

The script ‘covid\_alerts.bat’ will generate alerts when any of the alarm criteria listed in section 2. are met for the currently available COVID-19 data. This script in turn relies on the following python utilities:

* general\_alerts.py
* trust\_deaths.py
  1. **general\_alerts.py**

The ‘general\_alerts.py’ utility uses the NHS covid\_19 API for retrieving data for the ‘overview’ and ‘ltla’ ‘areaTypes’. The user must add the name(s) of any NHS ltla’s (Lower Tier Local Authority) for which they wish to monitor COVID-19 data in the ./config/general\_alert.csv configuration file. The rolling period used in this utility is set at 7 days but may be adjusted by changing the value set in the script configuration file. Any increase in rolling values is measured over the last two rolling periods whilst any assessment of the absolute rolling value is done against the latest rolling period.

* 1. **trust\_deaths.py**

The ‘trust\_deaths.py’ downloads an Excel spreadsheet containing NHS trust death data. The user must add the name of any NHS trusts for which they wish to monitor death data in the ./config/trust\_deaths.csv configuration file. This utility will prompt the user to analyse a data file containing NHS trust death data when any alarm criteria relating to trust deaths are met

1. **Alarm criteria**

|  |  |  |  |
| --- | --- | --- | --- |
| **Criteria** | **Utility** | **Configuration Required** | **areaType** |
| An increase in 700 in the rolling number of cases | general\_alerts.py | ./config/general\_alerts.csv  Line 1 + Line 2:  RollingCasesIncreaseLimit | overview |
| A rolling cases value greater than 3500 | general\_alerts.py | ./config/general\_alerts.csv  Line 1 + Line 2:  RollingCasesLimit | overview |
| An increase in the rolling deaths value. | general\_alerts.py | ./config/general\_alerts.csv  Line 2:  RollingDeathsIncreaseLimit | overview |
| A rolling deaths value greater than 10 | general\_alerts.py | ./config/general\_alerts.csv  Line 2:  RollingDeathsLimit | overview |
| An increase of 0.02% in the rolling percentage of positive tests | general\_alerts.py | ./config/general\_alerts.csv  Line 2:  RollingPositiveRateIncreaseLimit | overview |
| A rolling percentage of positive tests of 0.7 | general\_alerts.py | ./config/general\_alerts.csv  Line 2:  RollingPositiveRateLimit | overview |
| An increase in 3 in the rolling number of cases | general\_alerts.py | ./config/general\_alerts.csv  Line 1 + Line 2:  LTLARollingCasesIncreaseLimit | ltla |
| A rolling cases value greater than 10 | general\_alerts.py | ./config/general\_alerts.csv  Line 1 + Line 2:  LTLARollingCasesLimit | ltla |
| A rolling cases value of 0 | general\_alerts.py | ./config/general\_alerts.csv  Line 1 | ltla |
| A death in any monitored NHS trust in the last 7 days | trust\_deaths.py | ./config/trust\_deaths.csv  Line <n>: | N/A |