```
┌──────────────┐                          ┌──────────────┐                          ┌──────────────┐
│ ┌──┐         │        send C19 data     │      0       │     send stats data      │ ┌──┐         │
│ │Id│ Covid19 │ ───────────────────────▶ │  Generate    │ ◀─────────────────────── │ │Id│ pulation Stats │
│ └──┘   API   │                          │  Covid19     │                          │ └──┘     API  │
│              │ ◀─────────────────────── │   Report     │ ───────────────────────▶ │              │
│              │      request data        │              │      request data        │              │
└──────────────┘                          └──────────────┘                          └──────────────┘
```

Covid19 API

send C19 data

request data

0
Generate Covid19
Report

send stats data

request data

Population Stats API

Id

Automation using R or Python

API Covid19 → send C19 Data → 1 Gather data

1 Gather data → request Data → API Covid19

Population Stats → send Stats Data → 1 Gather data

1 Gather data → request Data → Population Stats

Automation using MS SSIS (scheduler)

2 Merge Data → Insert/Update vaccination → Vaccination

2 Merge Data → Insert/Update deaths → Deaths

2 Merge Data → Insert/Update cases → Cases

2 Merge Data → Insert/Update stats → Population Stats

Cases → cases data → 3 Generate report data

Population Stats → pop stats data → 3 Generate report data

Vaccination → vaccination data → 3 Generate report data

Deaths → deaths data → 3 Generate report data

App using MS SSRS

Generate report

App using MS Power BI

Generate geospacial map

Stakeholders

NS Health Authority

Reporting the covid19 cases, deaths, and vaccination daily.

Data update and release should be made daily.