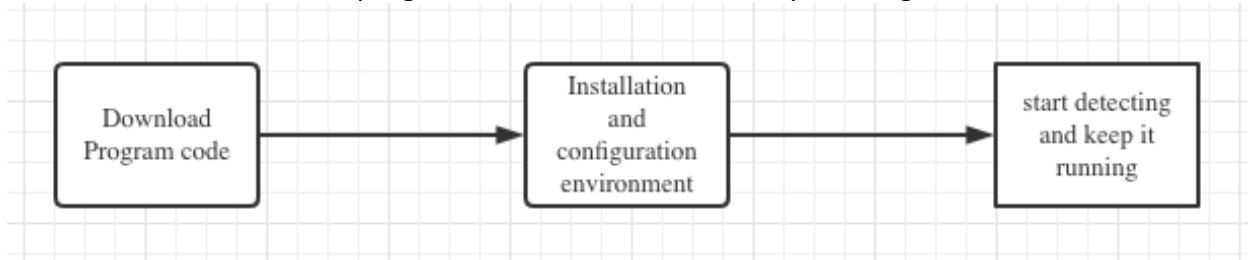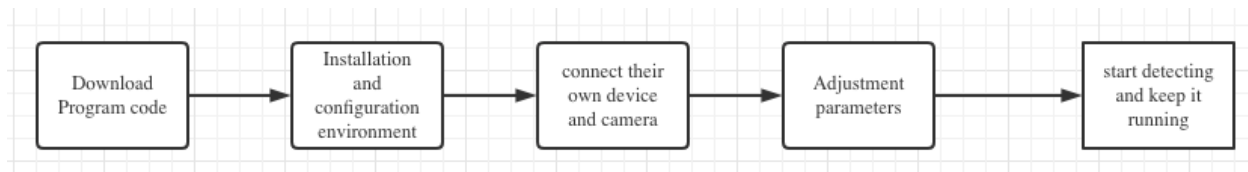# Face Mask Recognition

Design D0: In this diagram, user will first down all the source code and then install and configure them on their own computer to make sure the program will running successfully on their own device, then the program will start detect and keep running.

```
┌──────────────┐      ┌──────────────┐      ┌──────────────┐
│  Download    │      │ Installation │      │ start detecting │
│  Program code│ ───► │     and      │ ───► │ and keep it   │
│              │      │ configuration│      │   running     │
│              │      │ environment  │      │               │
└──────────────┘      └──────────────┘      └──────────────┘
```

Design D1:This diagram is more detailed, after download program code and install and configure environment, user need to connect their own device with the camera, because this program If want to achieve real-time monitoring, you need to connect the camera and keep running the program, then adjust the parameters to get the clearest image and distance, then start to detect.

```
┌──────────┐   ┌────────────┐   ┌──────────┐   ┌──────────┐   ┌──────────────┐
│ Download │   │Installation│   │connect   │   │Adjustment│   │start detecting│
│ Program  │──►│    and     │──►│their own │──►│parameters│──►│and keep it   │
│ code     │   │configuration│  │device    │   │          │   │running       │
│          │   │environment │   │and camera│   │          │   │              │
└──────────┘   └────────────┘   └──────────┘   └──────────┘   └──────────────┘
```

Design D2: This diagram is more detailed than D1, after install and configure environment in D1, user may need to use training data to train and test model to get a perfect model, and then use them in the real world scenarios.

```
┌─────────┐ ┌───────────┐ ┌──────────┐ ┌──────────┐ ┌──────────┐ ┌──────────┐ ┌──────────┐
│Download │ │Installation│ │Input     │ │trainning │ │connect   │ │decide the│ │Adjustment│
│Program  │►│   and     │►│trainning │►│model and │►│their own │►│size of   │►│parameters│
│code     │ │configuration│ │data     │ │test model│ │device    │ │target    │ │          │
│         │ │environment│ │          │ │          │ │and camera│ │          │ │          │
└─────────┘ └───────────┘ └──────────┘ └──────────┘ └──────────┘ └──────────┘ └────┬─────┘
                                                                                    │
                                                        ┌──────────────┐            │
                                                        │start detecting│◄──────────┘
                                                        │and keep it   │
                                                        │running       │
                                                        └──────────────┘
```