COVID-19 DIRECT CONTACT TRACING APP

[TOC]

Native App

TODO

Network

Registration / Login

- Method: `POST`

- Request JSON:

Field	Statement
usr	Email address
pwd	password

OR

Field	Statement
fbId	Facebook's User ID

OR

Field	Statement
twitterId	Twitter's User ID

```
{
    "usr":"john@apple.com",
    "pwd":"abcd1234"
}
//or
{
    "fbId":"3456789dfusahdfjksadf"
}
//or
{
    "twitterId":"hsidfkhaslkdf765678765"
}
```

- Response JSON:

Field	Statement
err	Error Code, 0=ok
Status	"OK"/"Wrong Password"
mobileId	User's Unique Identification

```
{
    "err":0,
    "Status":"OK",
    "mobileId":"89b99652-5f66-4203-85fd-378ef008ebe5"
}
```

User's Health Status

- Method: POST

- Request JSON:(User's Location)

Field	Statement
mobileId	User's mobileId String

```
{
    "mobileId": "89b99652-5f66-4203-85fd-378ef008ebe5"
```

```
    }
```

- Response JSON:

Field	Statement
err	Error Code
Status	User's Health Status, 0=OK, 1=Possible contagious contact, 2=High risk of infection
Msg	Server's message like "not found"/"server err",etc."

```
{
    "err":0,
    "Status": 1,
    "Msg":"OK"
}
```

Upload User's Track

- Method: `POST`

- Request JSON:(User's Current Location)

Field	Statement
mobileId	User's mobileId String
track	Array of "timestamp(seconds), latitude, longitude"

```
{
    "mobileId": "89b99652-5f66-4203-85fd-378ef008ebe5"
    "track": [
    "1588998457.3196459, 51.509979999999999,-0.13300000000000001",
    "1588998799.3196459, 51.509979999999999,-0.13300000000000001"
    ]
}
```

- Response JSON:

Field	Statement
err	Error Code
Msg	Server's message like "not found"/"server err",etc."

```
{
    "err":0,
    "Msg":"OK"
}
```

HeatPoint

- Method: `POST`

- Request JSON:(User's Location) Client will request every `5` mins or User's re-entered Map's View.

Field	Statement
lat	User's current latitude
lng	User's current longitude
zoomlevel	Map's current zoom level
mobileId	User's mobileId

```
{
    "lat":123.321123321,
    "lng":321.123321123,
    "zoomlevel":5,
    "mobileId":"89b99652-5f66-4203-85fd-378ef008ebe5"
}
```

- Response JSON:(Heat Points)

Return an JSON array of Heat Points

Field	Statement
err	Error Code
points	Sorted Array of heat map.

```
{
    "err":0,
    "points":[
    {
        "time_start":timestamp,
        "time_end":timestamp,
        "location": [
            "lat,long,weight",
            "lat,long,weight"
        ]
    },
    {
        "time_start":timestamp,
        "time_end":timestamp,
        "location": [
            "lat,long,weight",
            "lat,long,weight"
        ]
    },
    ]
}
```