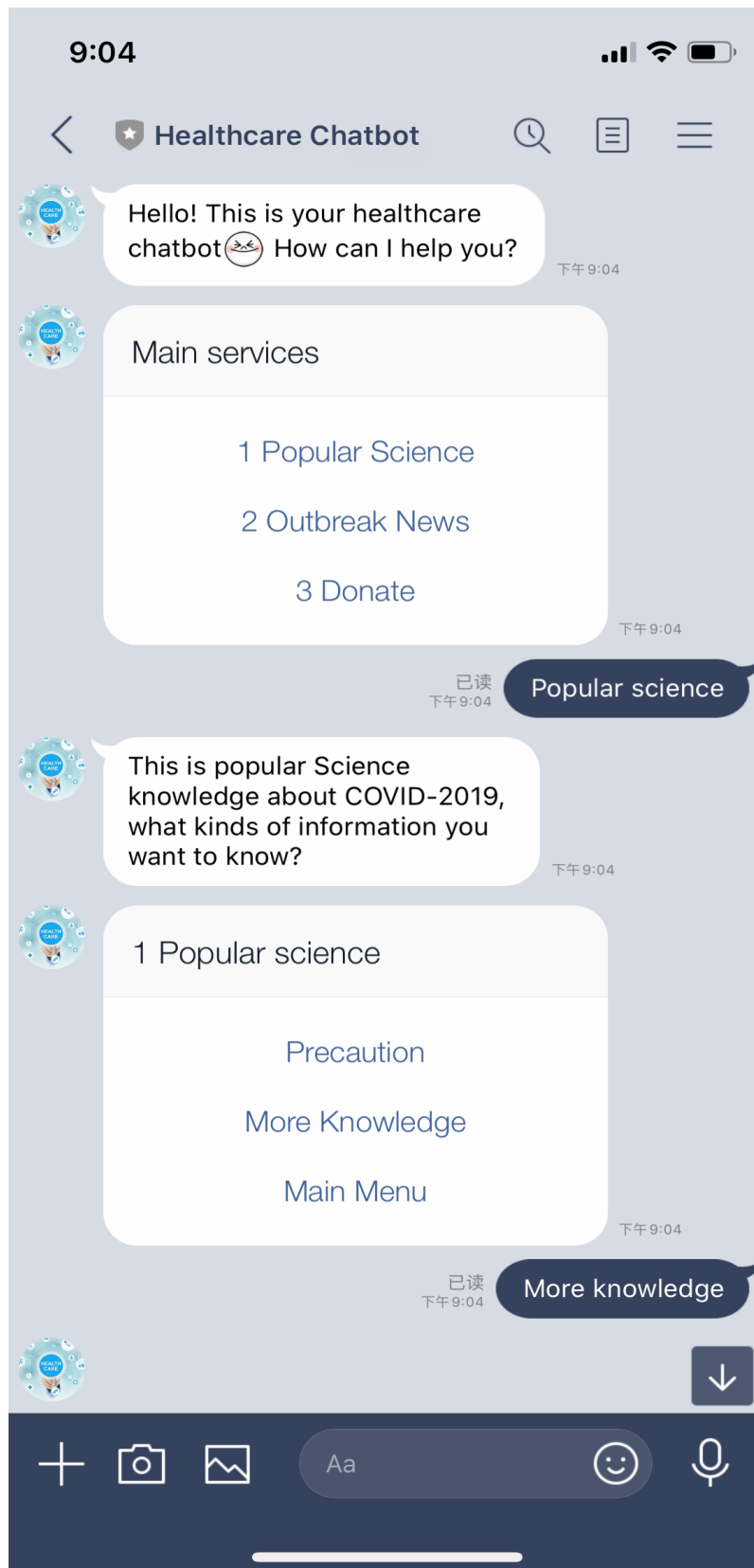


Screenshots of the chatbot:



9:05



Q&A on Coronavirus - COVID-19 in the ...
Healthcare Chatbot



More

下午9:04



Find more videos about coronavirus, please click: <https://www.who.int/emergencies/diseases/novel-coronavirus-2019/advice-for-public/videos>

How to protect your...
点击此处打开此链接。



下午9:04

已读
下午9:04

Precaution



Precautions:

Wash your hand

Protect others

下午9:04

已读
下午9:04

Wash your hand



Wash your hands

Wash your hands with soap and running water when **hands are visibly dirty**



Aa



9:05

Outbreak news



Healthcare Chatbot



This is the latest news about
COVID-2019. Kindly click of
information you want to know?



2 News about COVID-2019

Situation Report

Latest News

Myth Busters

Main Menu

下午9:05

已读
下午9:05

Latest news



**WHO, UN Foundation and
partners launc...**

**Shortage of
protective e**

More

下午9:05



Find more information about
coronavirus, please click: [https://
www.who.int/emergencies/diseases/
novel-coronavirus-2019](https://www.who.int/emergencies/diseases/novel-coronavirus-2019)

Coronavirus

On 31 December 2019,
WHO was informed of...



下午9:05



Aa



9:06



< Healthcare Chatbot



Coronavirus

Details

#COVID19

Corona

下午 9:05



Find more information about myth busters, please click: <https://www.who.int/emergencies/diseases/novel-coronavirus-2019/advice-for-public/myth-busters>

Myth busters

点击此处打开此链接。



下午 9:05

已读
下午 9:05

Donate



Attention! This donation is from WHO(World Health Organization) and has nothing to do with the chatbot, find more information please click: <https://www.who.int/emergencies/diseases/novel-coronavirus-2019/donate>

捐款

COVID-19 Response Fund



下午 9:05



Help Fight Coronavirus

This donation is for COVID-19 Solidarity Response Fund

[Go to donate](#)

下午 9:05



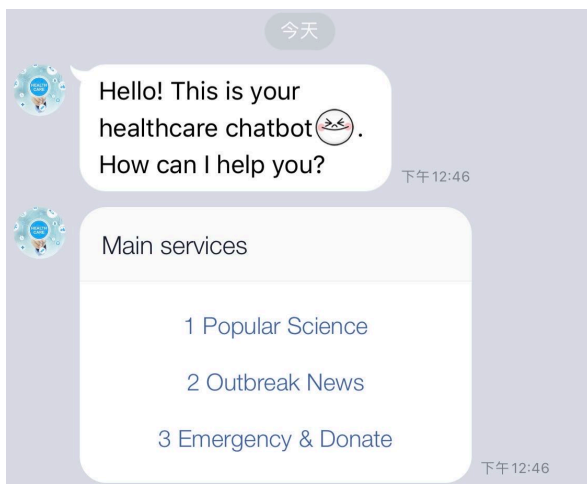
Aa



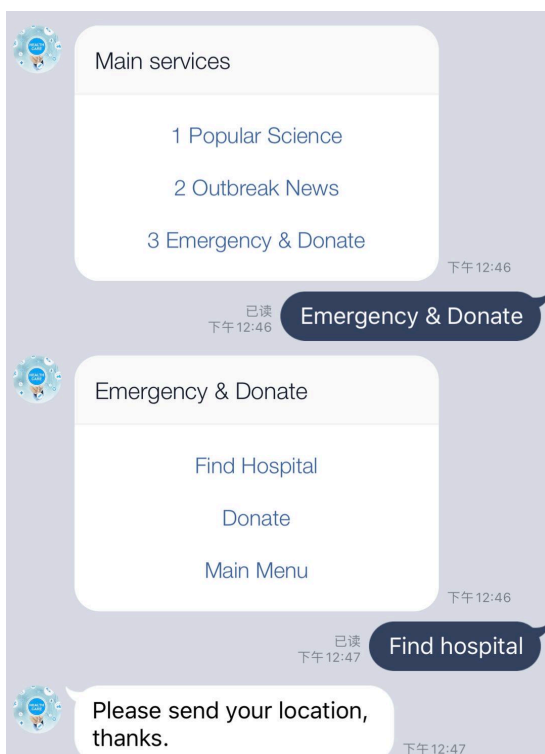
External service about “Find Hospital”

This process is to teach users how to use Healthcare Chatbot to find the nearest hospital around you. The detailed functions are shown below:

1. When you scan QR code and add the Healthcare Chatbot, the robot will greet you and ask how to help you. And provide you with main services navigation bar in the interface



2. Select the third item “Emergency & Donate” and it will jump to another interface, and choose the “Find Hospital”. The Chatbot will reply you and ask you to provide your location.



3. When you send your location, the Chatbot show you the nearest hospital name and specific address.



The link of operation of Healthcare Chatbot:

<https://www.youtube.com/watch?v=HrNFMIGAw0o&feature=youtu.be>

Sample code:

We use googlemaps and google API as a service to achieve the above function. Here are the sample code:

1. Get the API key from Heroku:

```
google_api_key = os.getenv('GOOGLE_API_KEY')
gmaps = googlemaps.Client(key=google_api_key)
```

2. Use Redis to get the user's location information, like latitude and longitude.
3. And then googlemaps to get the 'hospital' type places around the user.
4. Sort the places by distance and get the nearest one and give it back to user.

```

def handle_LocationMessage(event):
    r.set('my_lat', event.message.latitude) # use redis to set the user's latitude
    r.set('my_lon', event.message.longitude) # use redis to set the user's longitude
    mylat = float(r.get('my_lat'))
    mylng = float(r.get('my_lon'))
    mylocation = '{} {}'.format(mylat, mylng)
    # get the all places results around user's location within 10000m:
    places_results = gmaps.places_nearby(location=mylocation, type='hospital', radius=10000)
    # sort the hospital by distance:
    list = []
    for place in places_results['results']:
        name = place['name']
        lat = place['geometry']['location']['lat']
        lng = place['geometry']['location']['lng']
        address = place['vicinity']
        distance = ((lat - mylat) ** 2 + (lng - mylng) ** 2) ** 0.5
        info = distance, name, lat, lng, address
        list.append(info)
    list.sort()
    # get the nearest one:
    name_ = list[0][1]
    lat_ = list[0][2]
    lng_ = list[0][3]
    address_ = list[0][4]
    result_text = 'The nearest hospital around you is ' + name_ + '.'
    result = [TextSendMessage(text=result_text),
              LocationSendMessage(
                  title=name_, address=address_,
                  latitude=lat_, longitude=lng_)]
    line_bot_api.reply_message(event.reply_token, result)

```

Reference:

1. <https://blog.csdn.net/menpizzer/article/details/92019959>
2. <https://pypi.org/project/googlemaps/>