document

Data format:

Date is the next seven days from now

```python
for i in range (1,8) :
    date = (today + datetime.timedelta(days = i)).strftime('%d/%m')
```

Timeslots booked or not is randomly generate in api/__init__.py

```python
random.randint(0,1)
```

If it is booked then randomly generate a patient name otherwise is None

The data will write in a data.json file in api

```python
with open('data.json','w') as outfile:
    json.dump(data,outfile,ensure_ascii=False)
    outfile.write('\n')
```

Store in /api/__init__.py →generate /api/data.json

```json
{
    "0": {
        "information": {
            "name": "Yogita Khasa",
            "location": "Suite 4, Level 1 / 300 Barangaroo Avenue Barangaroo,
NSW 2000",
            "specialization": "Cosmetic Dentistry"
        },
        "appointment": {
            "07/04": {
                "09:00 – 10:00": [
                    "booked",
                    "Lily"
                ],
                …
            },
            "08/04": {
                "09:00 – 10:00": [
                    "available",
                    "None"
                ],
                …
            },
            …
        },
    },
    "1":{
        …
    },
    …
}
```

API:

Dentist:
    1.get all dentists name
        Get: appiontment/dentists
        Response body:
        [
            "Yogita Khasa",
            "Janani Ravichandran",
            "Nader Malik",
            "Jelena Skovrlj"
        ]
    2.get all information of one dentist
        Get: Appointment/dentists/{id}
        Response body:
        [
            {
                "location": "Suite 4, Level 1 / 300 Barangaroo Avenue Barangaroo,
    NSW 2000",
                "name": "Yogita Khasa",
                "specialization": "Cosmetic Dentistry"
            }
        ]

Timeslots:
    1. Gets the available dates of the specific doctor in next week (not all
       timeslots booked in the date)
       Get: appiontment /timeslots/{id}
        Response body:
       [
            "07/04",
            "08/04",
            "09/04",
            "10/04",
            "11/04",
            "12/04",
            "13/04"
       ]

    2. Gets the available timeslots of the specific doctor in specific date
       Get: appiontment /timeslots/{id}/{date}
       Response body:
       [
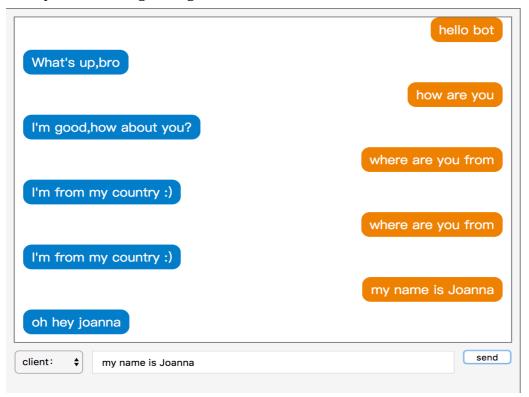   "10:00 - 11:00",
            "14:00 - 15:00",

```
        "16:00 - 17:00"
    ]
```

3. Get: appiontment /timeslots/{id}/{date}/{timeslot}
   Check a timeslot is available or not
   Response body:

```
[
    "booked",
    "Joe"
]
Or
[
    "available",
    "None"
]
```

4. Post: appiontment /timeslots/{id}/{dates}/{timeslot}/{patient}/reserve
   reserve the available timeslot in a specific date and dentist
   Response body:

```
{
    "07/04 15:00-16:00":
    [
        "booked",
        "Joe"
    ]
}
```

5. Delete: appointment/timeslots/{id}/{dates}/{timeslot}/{patient}/cancel
   cancel the booked timeslot in a specific date and dentist--change to available
   Response body:

```
{
    "07/04 15:00-16:00":
    [
        "available",
        "None"
    ]
}
```

Chatbots:
   Post: appiontment /chatbots
   Bot interaction
   Response body:

```
{
    "messges": "hi bro"
}
```
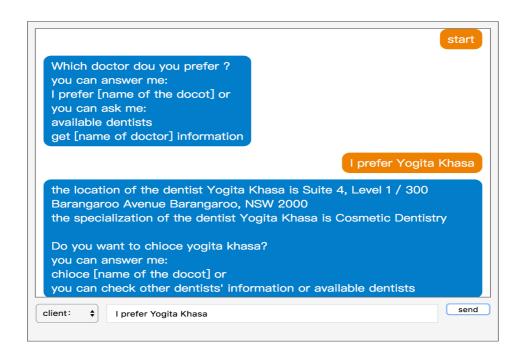
Bot Interaction
Rule based (/api/brain/rules.rive)
The data rule base bot needed handle by Chatbot API which get need data   from
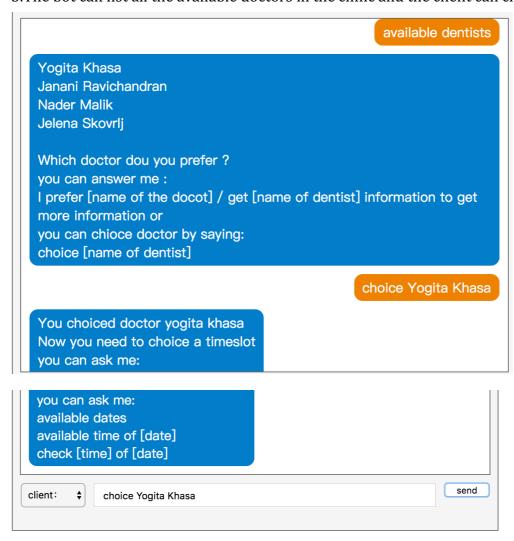dentists and timeslots API
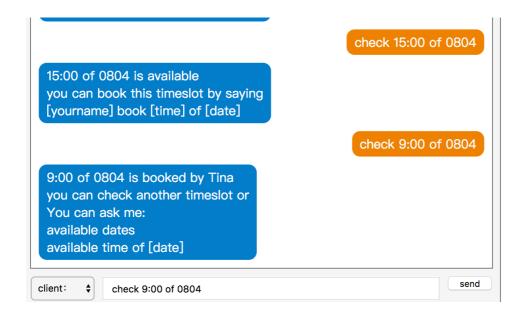1. respond to basic greetings

2.The bot asks the client for the preferred doctor and provide information about the
doctor

3.The bot can list all the available doctors in the clinic and the client can choose

available dentists

Yogita Khasa
Janani Ravichandran
Nader Malik
Jelena Skovrlj

Which doctor dou you prefer ?
you can answer me :
I prefer [name of the docot] / get [name of dentist] information to get more information or
you can chioce doctor by saying:
choice [name of dentist]

choice Yogita Khasa

You choiced doctor yogita khasa
Now you need to choice a timeslot
you can ask me:

you can ask me:
available dates
available time of [date]
check [time] of [date]

client: ▲▼   choice Yogita Khasa   send

4. the bot can check if the selected timeslot is already reserved and suggest another Timeslot

check 15:00 of 0804

15:00 of 0804 is available
you can book this timeslot by saying
[yourname] book [time] of [date]

check 9:00 of 0804

9:00 of 0804 is booked by Tina
you can check another timeslot or
You can ask me:
available dates
available time of [date]

client: ▲▼   check 9:00 of 0804   send

5. The bot can provide a list of available timeslots for the selected doctor

available dates

08/04
09/04
10/04
11/04
12/04
13/04
14/04

you can ask me:
available time of [date]
check [time(15)] of [date(0904)]

client: ▲▼   available dates   send

available time of 0804

9:00 – 10:00
13:00 – 14:00
15:00 – 16:00
16:00 – 17:00
you can say:
check [time(15)] of [date(0904)]
[yourname] book [date] [time]

client: ▲▼   available time of 0804   send

6. The bot can confirm the booking and summarize at the end.

Jo book 0804 9

timeslot be booked by other patient or date/time choice wrong
you can say:
confirm
cancel

Jo book 0804 11

jo booked with doctor Yogita Khasa at 11:00 – 12:00 of 0804
You can ask me:
confirm
cancel

confirm

jo booked with doctor Yogita Khasa at 11 of 0804

7. can cancel the booking if the client requested it and ask for confirmation.

cancel

Do you want to cancel booking with doctor Yogita Khasa at 11 of 0804
You can cancel by answer:Yes or no

yes

jo cancelled booking with doctor Yogita Khasa at 11 of 0804
You can book another appionment