

document

Data format:

Date is the next seven days from now

```
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

```
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

```
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

```
{  
  "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: appointment/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: appointment /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: appointment /timeslots/{id}/{date}

Response body:

```
[  
  "10:00 - 11:00",  
  "14:00 - 15:00",  
]
```

"16:00 - 17:00"

]

3. Get: appointment /timeslots/{id}/{date}/{timeslot}

Check a timeslot is available or not

Response body:

[

"booked",

"Joe"

]

Or

[

"available",

"None"

]

4. Post: appointment /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: appointment /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

A screenshot of a chatbot interface. The chat area shows a sequence of messages: a blue bubble 'What's up,bro', an orange bubble 'hello bot', a blue bubble 'I'm good,how about you?', an orange bubble 'how are you', a blue bubble 'I'm from my country :)', an orange bubble 'where are you from', a blue bubble 'I'm from my country :)', an orange bubble 'where are you from', and a blue bubble 'oh hey joanna'. An orange bubble 'my name is Joanna' is also present. At the bottom, there is a text input field with 'my name is Joanna', a 'client:' dropdown, and a 'send' button.

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

A screenshot of a chatbot interface. The chat area shows a blue bubble with the text: 'Which doctor dou you prefer ? you can answer me: I prefer [name of the docot] or you can ask me: available dentists get [name of doctor] information'. An orange bubble 'start' is in the top right. Below this, an orange bubble says 'I prefer Yogita Khasa'. A large blue bubble contains the text: 'the location of the dentist Yogita Khasa is Suite 4, Level 1 / 300 Barangaroo Avenue Barangaroo, NSW 2000 the specialization of the dentist Yogita Khasa is Cosmetic Dentistry Do you want to chioce yogita khasa? you can answer me: chioce [name of the docot] or you can check other dentists' information or available dentists'. At the bottom, there is a text input field with 'I prefer Yogita Khasa', a 'client:' dropdown, and a 'send' button.

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:

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:

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