

Sprint-4

Date	14 November 2022
Team ID	PNT2022TMID52309
Project Name	Personal Assistance For Seniors Who Are Self-Reliant

Task:

To create a Web UI, make the user interact with the software.

The Web UI, which allows users to interact with the software, is shown in the screenshots that are provided below.

1. User Medication details

node-red-cfmdr-2022-11-14.au-syd.mybluemix.net/ui/#/!/?socketid=qudJu54Tz_aS--QTAAAA

Medicine_Reminder

Medicine_UI

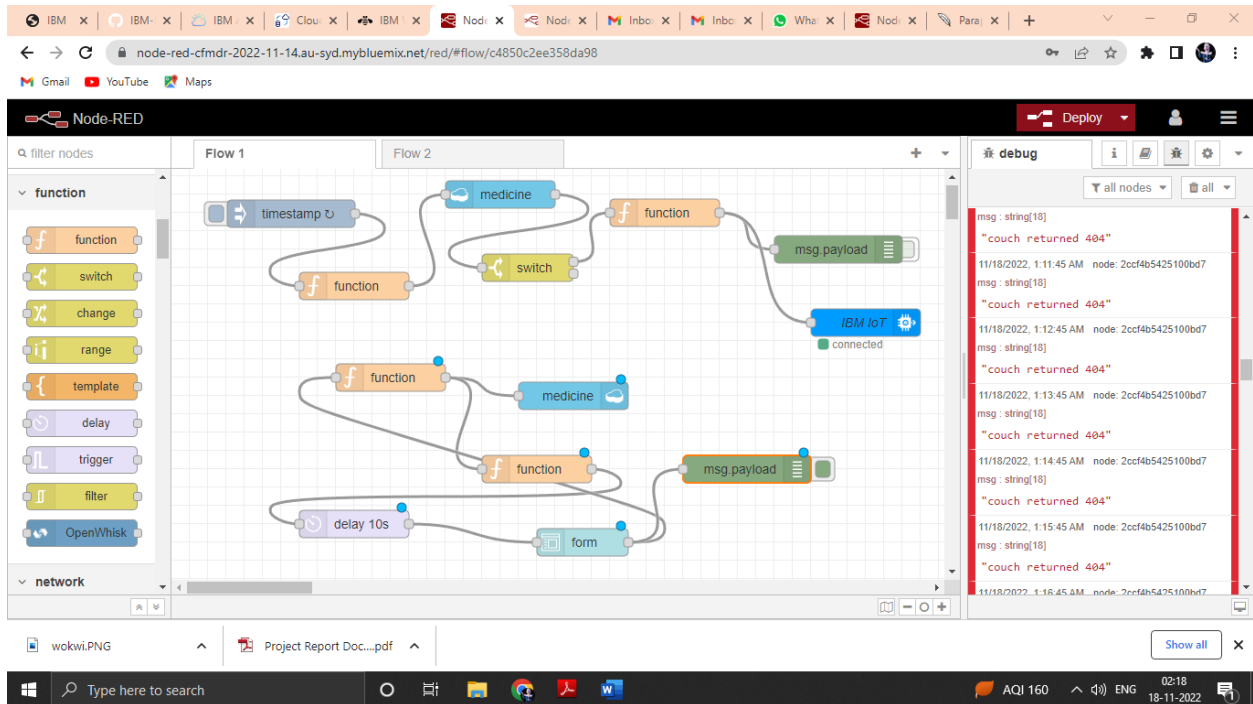
Enter the Medicine name
Arkamin

Time(HH-MM)24Hrs
11:11

Date(YYYY-MM-DD)
2022-12-01

SUBMIT CANCEL

2. Node Red Flow



3. IBM IoT Device

The screenshot shows the IBM IoT Device interface. The 'Recent Events' tab is selected, displaying a table of events. The table has columns for Event, Value, Format, and Last Received. The first event is 'event_1' with a value of '{"Medicine Name": "Crocin", "date": "2022-11-13T..."}' in json format, received 'a few seconds ago'. Below the table, there is a summary row showing '54321' items, 'Disconnected' status, 'TestDeviceType' device, and 'Oct 27, 2022 12:00 PM' time.

Event	Value	Format	Last Received
event_1	{"Medicine Name": "Crocin", "date": "2022-11-13T..."}	json	a few seconds ago

54321 Disconnected TestDeviceType Device Oct 27, 2022 12:00 PM

4. Cloudant DB

The screenshot shows the IBM Cloud dashboard for a database named 'medicine'. The left sidebar contains navigation options: All Documents, Query, Permissions, Changes, and Design Documents. The main area displays a table of documents with columns '_id' and 'name'. The table contains three rows of data:

_id	name
2022-11-1909:15	Trajenta
2022-12-0111:11	Arkamin
2022-12-0112:50	Apresol

At the bottom of the table, it indicates 'Showing 2 of 3 columns' and 'Showing document 1 - 3'. The 'Documents per page' is set to 20.

5.TTS Service

The screenshot shows the IBM Cloud Text to Speech service page. The page is titled 'Text to Speech-yl' and is marked as 'Active'. The 'Manage' section on the left includes links for 'Getting started', 'Service credentials', 'Plan', and 'Connections'. The main content area has a 'Start by viewing the tutorial' section with links to 'Getting started tutorial' and 'API reference'. The 'Credentials' section displays the 'API key' and 'URL' fields. The 'Plan' section shows the 'Lite' plan with an 'Upgrade' button.

API key:

URL: https://api.eu-gb.text-to-speech.watson.cloud.ibm.com/...

Python Script

```
File Edit Format Run Options Window Help
from ibm_watson import TextToSpeechV1
from ibm_cloud_sdk_core.authenticators import IAMAuthenticator
from playsound import playsound
authenticator = IAMAuthenticator('97f228C6Ec0YbfJrxCB7YW690uPadxJOjbuA0DBK8xFh')
text_to_speech = TextToSpeechV1(
    authenticator=authenticator
)

text_to_speech.set_service_url('https://api.eu-gb.text-to-speech.watson.cloud.ibm.com/voices/en-US')

with open('med.mp3', 'wb') as audio_file:
    audio_file.write(
        text_to_speech.synthesize(
            'Take Crocin 50 mg Now',
            voice='en-US_AllisonV3Voice',
            accept='audio/wav'
        ).get_result().content
    )
print("playing")
playsound('med.mp3')
```

Voice Command

