

Project Development Phase Sprint 2

Date	11 November 2022
Team ID	PNT2022TMID32584
Project Name	Project – Personal Assistance for Seniors Who are Self Reliant.

Creation of Text to Speech Service:

Installation of IBM Watson Version:

```
Command Prompt
Microsoft Windows [Version 10.0.19044.2130]
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C:\Users\Admin>pip install --upgrade "ibm-watson">=6.1.0
Collecting ibm-watson>=6.1.0
  Downloading ibm-watson-6.1.0.tar.gz (373 kB)
    | 373 kB 656 kB/s
  Installing build dependencies ... done
  Getting requirements to build wheel ... done
  Preparing wheel metadata ... done
Collecting ibm-cloud-sdk-core>=3.*,>=3.3.6
  Downloading ibm_cloud_sdk_core-3.16.0-py3-none-any.whl (83 kB)
    | 83 kB 124 kB/s
Collecting requests<3.0,>=2.0
  Downloading requests-2.28.1-py3-none-any.whl (62 kB)
    | 62 kB 77 kB/s
Collecting python-dateutil>=2.5.3
  Downloading python_dateutil-2.8.2-py2.py3-none-any.whl (247 kB)
    | 247 kB 656 kB/s
Collecting websocket-client>=1.1.0
  Downloading websocket_client-1.1.0-py2.py3-none-any.whl (68 kB)
    | 68 kB 134 kB/s
Collecting urllib3<2.0.0,>=1.26.0
  Downloading urllib3-1.26.12-py2.py3-none-any.whl (140 kB)
    | 140 kB 73 kB/s
Collecting PyJWT<3.0.0,>=2.4.0
  Downloading PyJWT-2.6.0-py3-none-any.whl (20 kB)
Collecting six>=1.5
  Downloading six-1.16.0-py2.py3-none-any.whl (11 kB)
Collecting charset-normalizer<3,>=2
  Downloading charset_normalizer-2.1.1-py3-none-any.whl (39 kB)
Collecting idna<4,>=2.5
  Downloading idna-3.4-py3-none-any.whl (61 kB)
    | 61 kB 21 kB/s
Collecting certifi>=2017.4.17
  Downloading certifi-2022.9.24-py3-none-any.whl (161 kB)
    | 161 kB 489 kB/s
Building wheels for collected packages: ibm-watson
  Building wheel for ibm-watson (PEP 517) ... done
  Created wheel for ibm-watson: filename=ibm_watson-6.1.0-py3-none-any.whl size=370808 sha256=98030125910bfa977797289cf041b73d9bdf1b6add8eb244b44aa26a7720dc6d
  Stored in directory: c:\users\admin\appdata\local\pip\cache\wheels\bb\d0\34\ff5df539c080e3a57abae75307fdc7ae057478b248a8900c3e
Successfully built ibm-watson
Installing collected packages: urllib3, six, idna, charset-normalizer, certifi, requests, python-dateutil, PyJWT, websocket-client, ibm-cloud-sdk-core, ibm-watson
Successfully installed PyJWT-2.6.0 certifi-2022.9.24 charset-normalizer-2.1.1 ibm-cloud-sdk-core-3.16.0 ibm-watson-6.1.0 idna-3.4 python-dateutil-2.8.2 requests-2.28.1
```

Creation of Text to Speech Service:

The screenshot displays the IBM Cloud console for the 'Text to Speech-g2' service. The interface includes a top navigation bar with the IBM Cloud logo, a search bar, and links to 'Catalog', 'Manage', and the user's account. The main content area is divided into a left sidebar with navigation options ('Manage', 'Getting started', 'Service credentials', 'Plan', 'Connections') and a central panel. The 'Manage' tab is active, showing a 'Start by viewing the tutorial' section with links to 'Getting started tutorial' and 'API reference'. To the right, the 'Plan' section shows 'Lite' as the current plan with an 'Upgrade' button. Below these, the 'Credentials' section displays the 'API key' and 'URL'. The API key is 'RnoqF739Lb5BognUDYehER97eEjqPVZ98QhpGe1XNKbq' and the URL is 'https://api.eu-gb.text-to-speech.watson.cloud.ibm.com/1'. A 'Download' button and a 'Hide credentials' link are also present. The bottom of the screen shows the Windows taskbar with various application icons and system information like '30°C Haze' and '15:41 16-11-2022'.

IBM Cloud

Search resources and products...

Resource list /

Text to Speech-g2

Active Add tags

Details Actions...

Manage

- Getting started
- Service credentials
- Plan
- Connections

Start by viewing the tutorial

Getting started tutorial API reference

Plan

Lite

Upgrade

Credentials

Download Hide credentials

API key:

RnoqF739Lb5BognUDYehER97eEjqPVZ98QhpGe1XNKbq

URL:

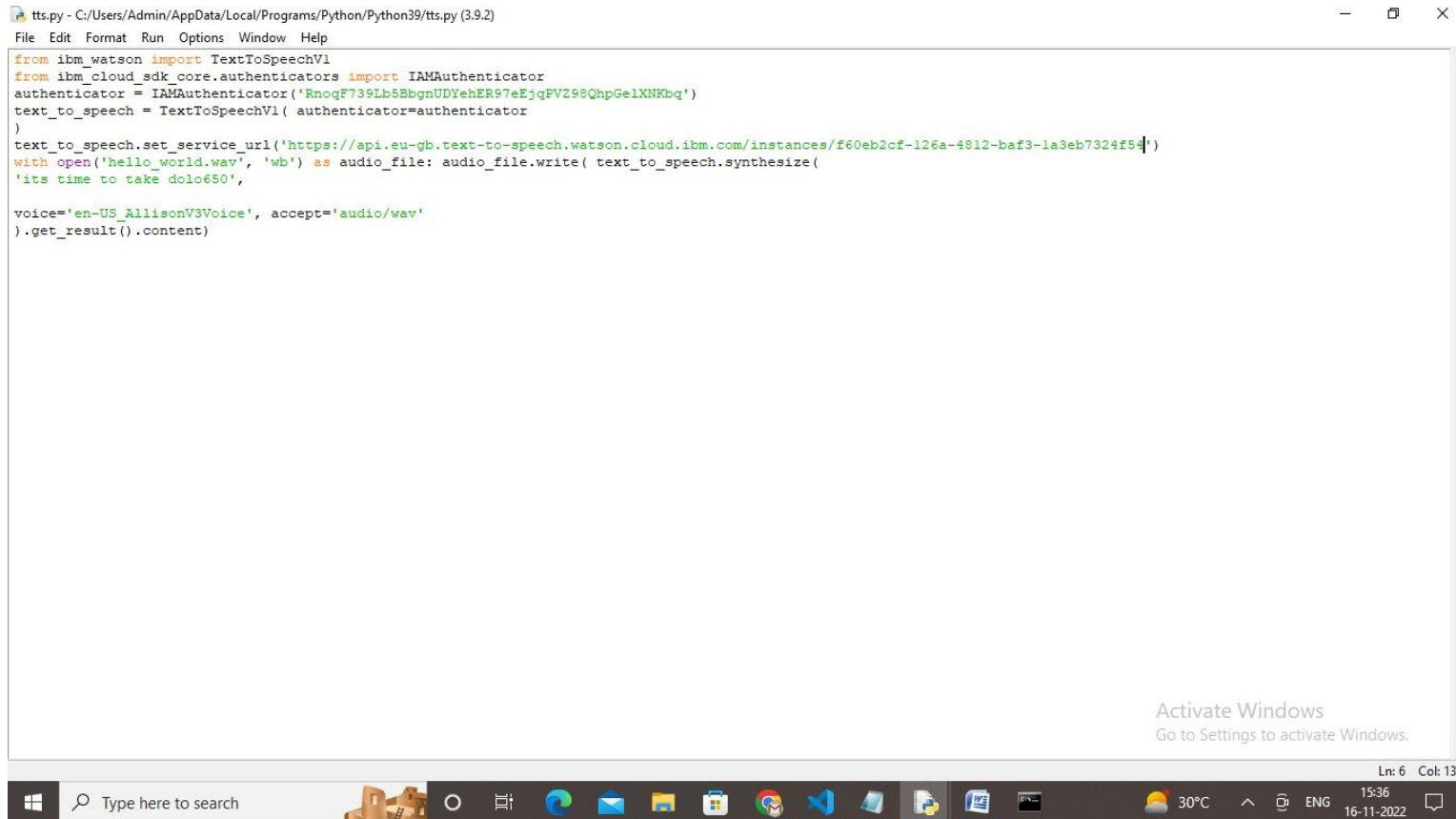
https://api.eu-gb.text-to-speech.watson.cloud.ibm.com/1

Activate Windows
Go to Settings to activate Windows.

Type here to search

30°C Haze 15:41 16-11-2022

Program for accessing Text to Speech Service:



```
tts.py - C:/Users/Admin/AppData/Local/Programs/Python/Python39/tts.py (3.9.2)
File Edit Format Run Options Window Help

from ibm_watson import TextToSpeechV1
from ibm_cloud_sdk_core.authenticators import IAMAuthenticator
authenticator = IAMAuthenticator('RnoqF739Lb5BbgnUDYehER97eEjqFVZ98QhpGelXNKbq')
text_to_speech = TextToSpeechV1(authenticator=authenticator)
)
text_to_speech.set_service_url('https://api.eu-gb.text-to-speech.watson.cloud.ibm.com/instances/f60eb2cf-126a-4812-baf3-1a3eb7324f54')
with open('hello_world.wav', 'wb') as audio_file: audio_file.write(text_to_speech.synthesize(
    'its time to take dolo650',
    voice='en-US_AllisonV3Voice', accept='audio/wav'
).get_result().content)
```

Ln: 6 Col: 132

Activate Windows
Go to Settings to activate Windows.

Python 3.9.2 (tags/v3.9.2:1a79785, Feb 19 2021, 13:44:55) [MSC v.1928 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
==== RESTART: C:/Users/Admin/AppData/Local/Programs/Python/Python39/tts.py ====
>>>

Activate Windows
Go to Settings to activate Windows.

Ln: 5 Col: 4