

# PROJECT DEVELOPMENT PHASE

## SPRINT 4

DATE	15 NOVEMBER 2022
TEAM ID	PNT2022TMID33781
PROJECT TITLE	Personal assistance for seniors who are self reliant

Generating voice commands using IBM text to speech Service

### INSTALLATION OF WATSON VERSION:

Install the IBM Watson of upgraded version.

In the command prompt, use the command pip-install to download the IBM Watson.

“pip-install” upgrade “IBM-watson>=6.1.0”

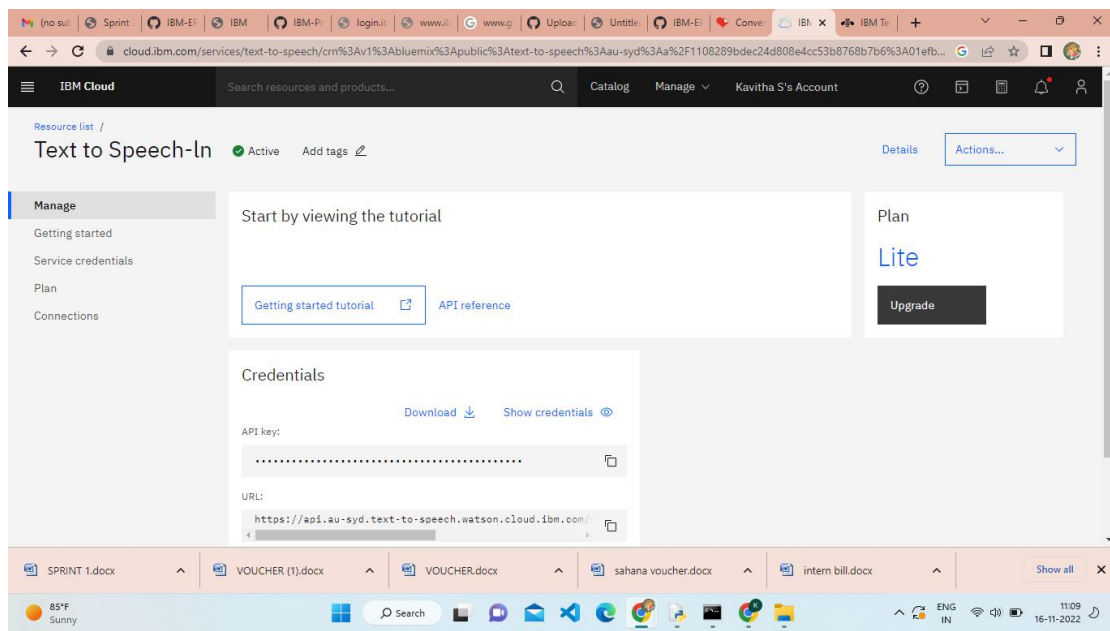
```
Microsoft Windows [Version 10.0.22000.1896]
(c) Microsoft Corporation. All rights reserved.

C:\Users\USER>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 819 kB/s
  Installing build dependencies ... done
  Getting requirements to build wheel ... done
  Preparing wheel metadata ... done
Collecting websocket-client==1.1.0
  Downloading websocket-client-1.1.0-py2.py3-none-any.whl (68 kB)
    68 kB 713 kB/s
Collecting python-dateutil>=2.5.3
  Downloading python-dateutil-2.8.2-py2.py3-none-any.whl (247 kB)
    247 kB 726 kB/s
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 164 kB/s
Requirement already satisfied: requests<3.0,>=2.0 in c:\python39\lib\site-packages (from ibm-watson>=6.1.0) (2.28.1)
Requirement already satisfied: urllib3<2.0.0,>=1.26.0 in c:\python39\lib\site-packages (from ibm-cloud-sdk-core==3.*>=3.3.6->ibm-watson>=6.1.0) (1.26.12)
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)
Requirement already satisfied: idna<4,>=2.5 in c:\python39\lib\site-packages (from requests<3.0,>=2.0->ibm-watson>=6.1.0) (3.4)
Requirement already satisfied: certifi>=2017.4.17 in c:\python39\lib\site-packages (from requests<3.0,>=2.0->ibm-watson>=6.1.0) (2022.0.14)
Requirement already satisfied: charset-normalizer<3,>=2 in c:\python39\lib\site-packages (from requests<3.0,>=2.0->ibm-watson>=6.1.0) (2.1.1)
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=568c4ad97a786115d57c8e139a81b450257a985f194052949a7911bfc42eded6
  Stored in directory: c:\users\user\appdata\local\pip\cache\wheels\bb\0b\34\ff5df539c080e3a57abae75307fdc7ae857478b248a8900c3e
Successfully built ibm-watson
Installing collected packages: six, python-dateutil, PyJWT, websocket-client, ibm-cloud-sdk-core, ibm-watson
ERROR: Could not install packages due to an OSError: [Errno 13] Permission denied: 'c:\python39\Scripts\wsdump.py'
Consider using the '--user' option or check the permissions.

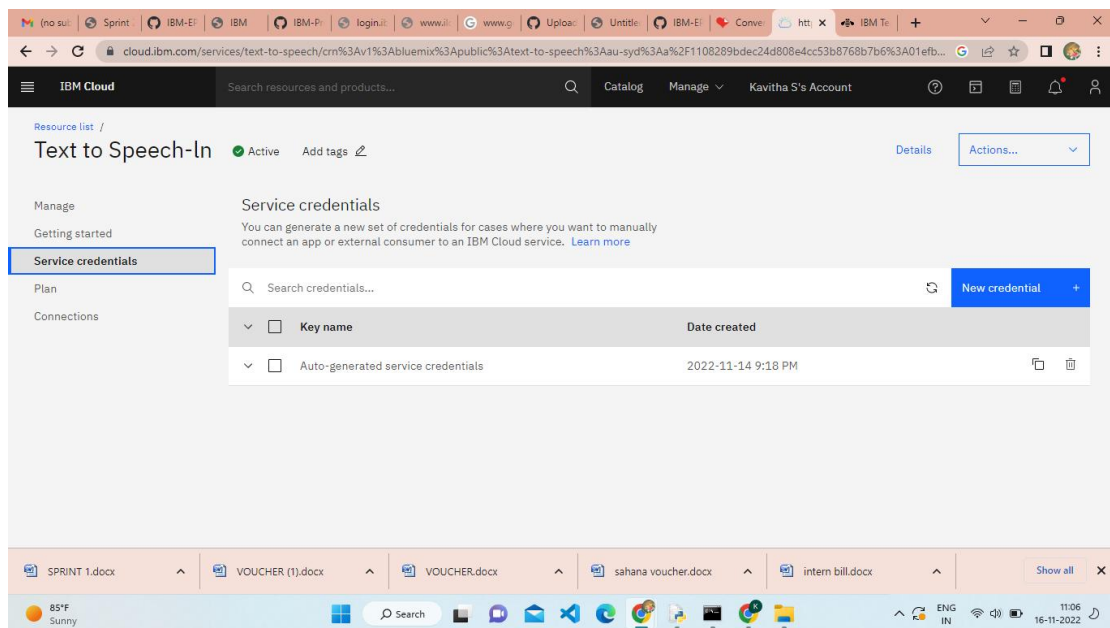
WARNING: You are using pip version 21.1.3; however, version 22.3.1 is available.
You should consider upgrading via the 'c:\python39\python.exe -m pip install --upgrade pip' command.

C:\Users\USER>sudo pip install --upgrade pip
'sudo' is not recognized as an internal or external command,
operable program or batch file.
```

### CREATE THE TEXT-TO-SPEECH SERVICE IN CLOUD:



After creating the text-to-speech engine, add the credentials



## CODE:

```
from gtts import gTTS
from playsound import playsound
import os
text_val = 'All the best for .'
language = 'en'
obj = gTTS(text=text_val, lang=language, slow=False)
obj.save("exam.mp3")
playsound("exam.mp3")
os.remove("exam.mp3")
```

