Introduction

This document serves as the step by step instructions on how to deploy and use Name Pronouncer tool. It also provides details on how to use the API.

Instructions on deployment :-

Execute run.bat file and the Name Pronouncer application will be launched.
run.bat file internally does these 3 things below

a. Executes reader.py
b. Executes recorder.py
c. Launches html page in Browser

Instructions on how to use Name pronouncer :-

1. To hear standard pronunciation :-
   Enter the below details in Get your Name Right Section
   a. Name for which the pronunciation needs to be heard.
   b. Employee Id of the name
   c. Language in which the pronunciation needs to be heard
   d. Country in which the pronunciation needs to be heard
   e. Check the slow checkbox if the pronunciation needs to be heard in slow format
   f. Click on submit.The pronunciation will be displayed in the form of phonetics and audio format
   g. Click on play button to hear the audio of the name pronunciation

2. To record customized pronunciation :-
   Enter the below details in Customize Pronounce Section
   a. Enter the employee id for which the pronunciation needs to be recorded.
   b. Click on Record
   c. Say the Name loud which needs to be recorded and click on Stop recording
   d. Click the play button to verify if the recording is fine
   e. Click on submit
   f. You will see a success message as ‘saved successfully’ and the recording will be saved in the name of the provided employee id in a filepath
   g. You can hear the recorded playback in Get your name Right Section by providing the name and employee id details and click on submit.

Instructions on how to run the API for Name pronouncer;-

The URL endpoint is: http://127.0.0.1:7869/api/predict/

Input(s): [Textbox , Textbox , Dropdown , Dropdown , Checkbox]
Textbox accepts the text input as type str
Dropdown accepts the selected choice as type str

Checkbox accepts the boolean input as type bool
Output(s): [Audio , Textbox]
Audio returns the base64 url data as type str
Textbox returns the output value as type Union[str, number]
Payload:

```
{

    "data": [ str , str , str , str , bool ]

}
```

Response:

```
{

    "data": [ str , Union[str, number] ],

    "durations": [ float ], # the time taken for the prediction to complete

    "avg_durations": [ float ] # the average time taken for all predictions so far (used to estimate the runtime)

}
```

Post processing involves converting the base64 audio returned by the API to an audio tmp file object

Sample code is implemented in api-client.py file