AmazonEcho documentation

Release 0.1.0

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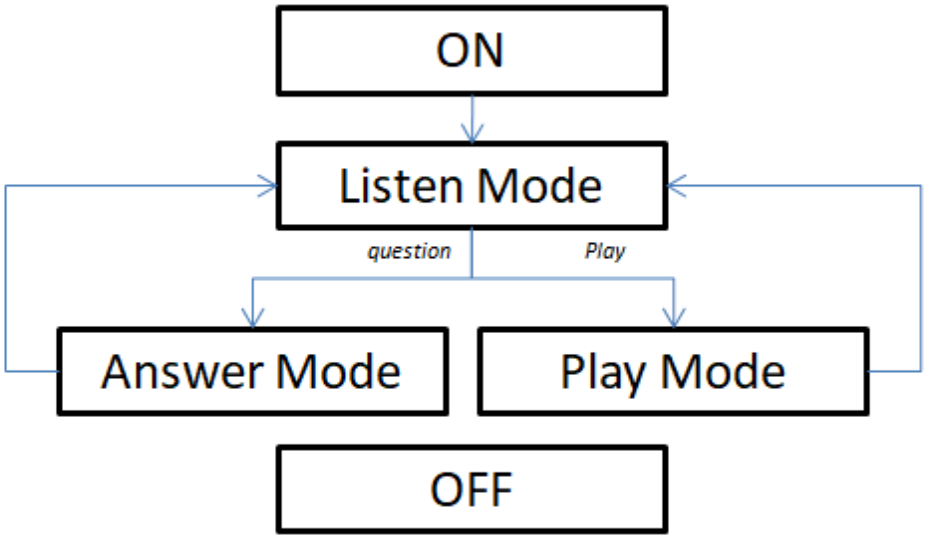

alt High level overview of Amazon echo program

Chapter 1

Text to Speech

1.1 Text to speech method

1.1.1 Text to speech converter

Use it like this:

```
from txt_to_speech import text_to_speech

text_to_speech("what is your name")
```

txt_to_speech.**text_to_speech** (*text: str*) → str

function converts text to speech uses the request module to send text content to microsoft returns binary data.

Parameters **text** – A string of text.

Chapter 2

Answer Question Mode

2.1 Answer question method

***Use it like this*::**
from answer_service import answer_mode question = “who is the queen of england” answer_service(question)

answer_service.**answer_mode** (*question: str*) → str
Takes a users question in string format Returns results from wolframalpha api in json format raises Error when question is not found or server error

Chapter 3

Database Configuration

3.1 Add data to database

3.1.1 Add data to database

Example of a method use:

```
from database_entry import insert_file
insert_file('quiet-music.wav', 'sample.db', 'audio', "music" ,"quiet")
```

database_entry.**convert_into_binary** (*file_path: str*) → str
Takes a file with wav format converts to binary

database_entry.**create_db_table** (*db_name: str*) → str
db_name creates the database and schema in sqlite

database_entry.**insert_file** (*file_name: str, db_name: str, table_name: str, category: str, SHORT_DESC: str*)
inserts audio data into sqlite and stores it as a blob format.

database_entry.**sqlite_connect** (*db_name: str*) → str
takes database name and attempts to connect

Chapter 4

Database Configuration

4.1 Retrive data from database

4.1.1 Retrive data from database

Use it like this:

```
from database_retriv import retrieve_file
retrieve_file("dog barking")
```

database_retriv.**retrieve_file** (*file_name: str*) → str

takes in a string and searches the string value in the database when found BLOB in data format is returned/played else not found error returned

Chapter 5

Listening service

5.1 Listens & Translate users voice into text

5.1.1 Listens & Translate users voice into text

***Use it like this*::**
record() # this will start voice recording speech_to_text() # convert stored audio to text

`listening_service.`**`record`** (*duration=5.0*) → bool
pyaudio records users voice and converts to wav format

`listening_service.`**`speech_to_text`** ( ) → None
reads the dd.wav and sends the data to microsoft api to translate into english text

Chapter 6

Play service

6.1 Plays Binary

6.1.1 Plays Binary

Use it like this:

```
from play_service import play
play()
```

play_service.**play** (*audio_in: any*)
takes in wav data and plays it

GUI & Controller

7.1 Runs Amazon Echo

7.1.1 Runs Amazon Echo program

main.**Simpletoggle**( ) → None
ON/OFF mode for echo with welcome messages.

main.**controller**( ) → None
this function acts as a directional service for play and questions

main.**create_thread**( ) → None
threading to solve frozen ON button.

- genindex
- modindex
- search

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