GRAPHICAL USER INTERFACE FOR ·)) ((· BOLT VOICE ASSISTED

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### **OVERVIEW**

This Project makes user to write lots of code in simple and easier way. It has speech recognition and text to speech so that user can execute those commands via their voice. It stores Query and executable code in Database so that user can use those command again and again.

For Example:

```
1 from boltiot import Bolt
3 mybolt=Bolt(conf.api_key,conf.device_id)
6 while ctrl!="exit":
          value=input("\n Enter On or off :")
8
          ctrl=value.lower()
          if ctrl=="on":
                  response=mybolt.digitalWrite('0','HIGH')
10
11
                  print("LED is Sucessfully Turned ON")
          elif ctrl=="off":
12
                 response=mybolt.digitalWrite('0','LOW')
13
                 print("LED is Sucessfully Turned OFF")
14
15
          else:
                  print("Please Enter ON or OFF.....or if you want to close enter exit")
16
```

Instead of typing all these lines of codes user just need to type the main code "digitalWrite(0, 'HIGH')" in Executable code field as shown below

Commands						
Enter Your Command	turn on light	Enter Executable Code	digitalWrite(0,'HIGH')			
Enter output	led turned on successfull					
Add	Update	Clear	Delete			
	Vrite(0,'HIGH') {led turned on succ Nrite(0,'LOW') {led turned off succ					

## **PYTHON MODULES USED**

- 1. boltiot
- 2. tkinter
- 3. speechrecognition
- 4. os
- 5. pyttsx3
- 6. urllib.request
- 7. sqlite3

### **DEMONSTRATION LINK**

https://youtu.be/6F\_TE54LLQ8

### **ABOUT INTERFACE**

### **Settings.py**

Bolt IOT With GUI and Voice Assisted –					×			
Connection								
Enter Your Bolt Device ID		Enter Your Bolt API Key						
Connect Bolt D	evice	disconne	ct					
Connected Device :		2522						
Commands								
Enter Your Command	turn on light	Enter Executable Code	digitalWrite(0,'HIGH')					
Enter output	led turned on successfull							
Add	Update	Clear	Delete					
	(0,'HIGH') {led turned on su (0,'LOW') {led turned off su							

In Connection Section User needs to enter their BOLT Device ID and API Key and click on Connect Bolt Device button. the program will store the information of device for further use. If the Device is already Connected the device ID will be visible on Connected device field and if user wants to connect other device then user needs to click on Disconnect button to delete Device ID and API key which is previously added to Database and another Device details can be stored.

In Commands Section User has Access to Add, Update and Delete the Command on Query Database. There are three input fields in Command Section.

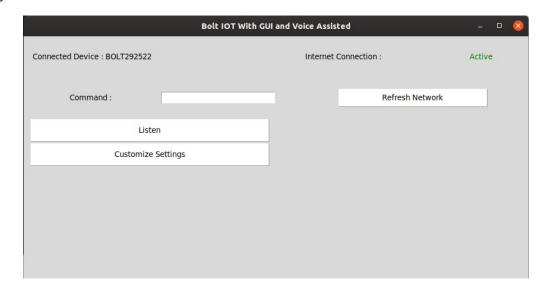
command represents the query which is compared with recognized voice to perform operations.

Executable code represents when the query is successfully matched with the recognized voice, this field will be executed.

Output represents when the code is successfully executed, computer will talk back this field.

And this section has list to show all queries present in database file.

### Main.py



Connected device field Shows Device ID which we added to database file.

Command field displays the recognized voice.

When user clicks on Listen button speech recognition function will be called to listen what user speaks and recognize it.

Customize settings button calls settings.py program.

Refresh Network button checks whether internet connection is active/inactive.