



Hey..!

MEENA



Voice Assistant

using Python

By_ #Akash_Kumbhar
19201202

INDEX

100 बात की
एक बात...!



1. What is this?
2. What she doing?
3. How it works?
4. Data flow Diagram
5. Hardware & System Requirements
6. Virtual Library Requirements
7. Advantage
8. Disadvantage
9. Future plans and scope
10. Conclusion

2.

What is this? 🤔

- 'Hey Meena' is a Virtual Assistant technology based on Artificial Intelligence.
- This software program use device's microphone to receive voice requests and processing on it, and send response via Speaker.
- It is combination of different technologies like Voice Recognition, Language Processing, Voice Analysis.
- This software program is developed using python language and his modules.

**Kaam ki Baat
Kahi hai..!**



3

What she doing?

This Assistant will do :



T A S K

- ✓ Greeting you as per Real time.
- ✓ Find information online, from restaurant bookings to directions, weather and news.
- ✓ Play games.

T A S K

- ✓ Control your music
- ✓ Play content from YouTube by using Chrome
- ✓ Open other software like notepad, calendar etc.

4.

How it Works? 🤔

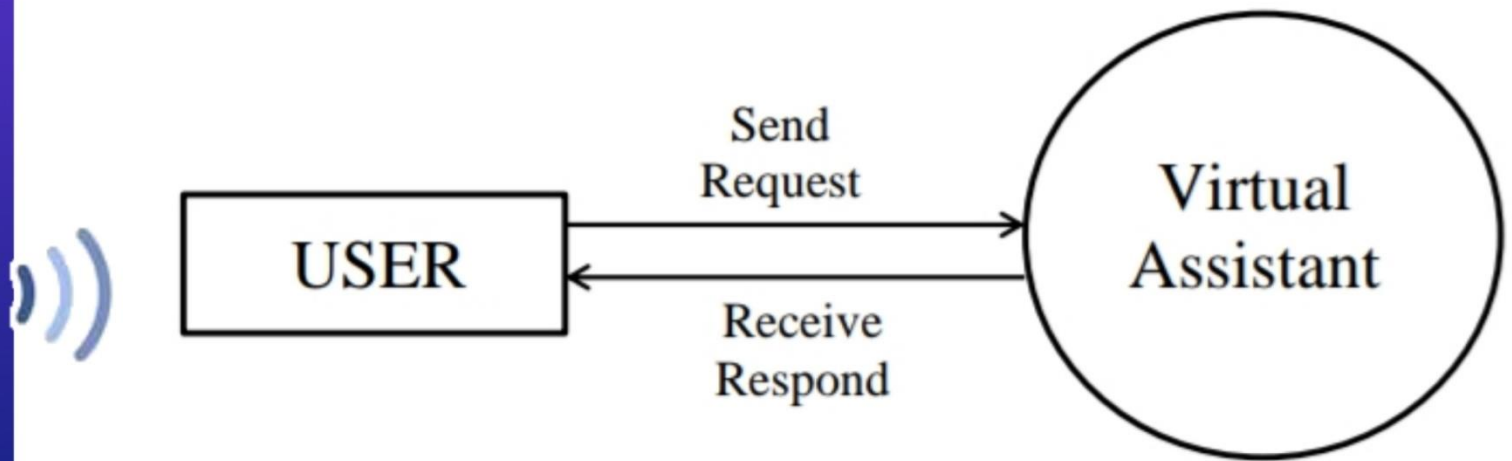
1. User ask the Assistant to perform the task.
2. The natural language audio signal is converted into digital data that can be analyzed by the software.
3. Compared with a database of the software using an innovative algorithm to find a suitable answer.
4. This database is located on distributed servers in cloud networks.
5. For this reason ,it must have a reliable Internet connection.



5

Data Flow Diagram

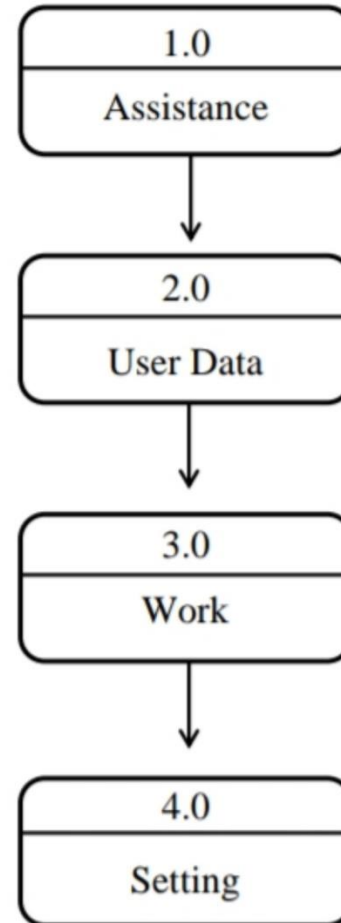
4.6.1 DFD Level 0 (Context Level Diagram)



6

Data Flow Diagram (Level 1)

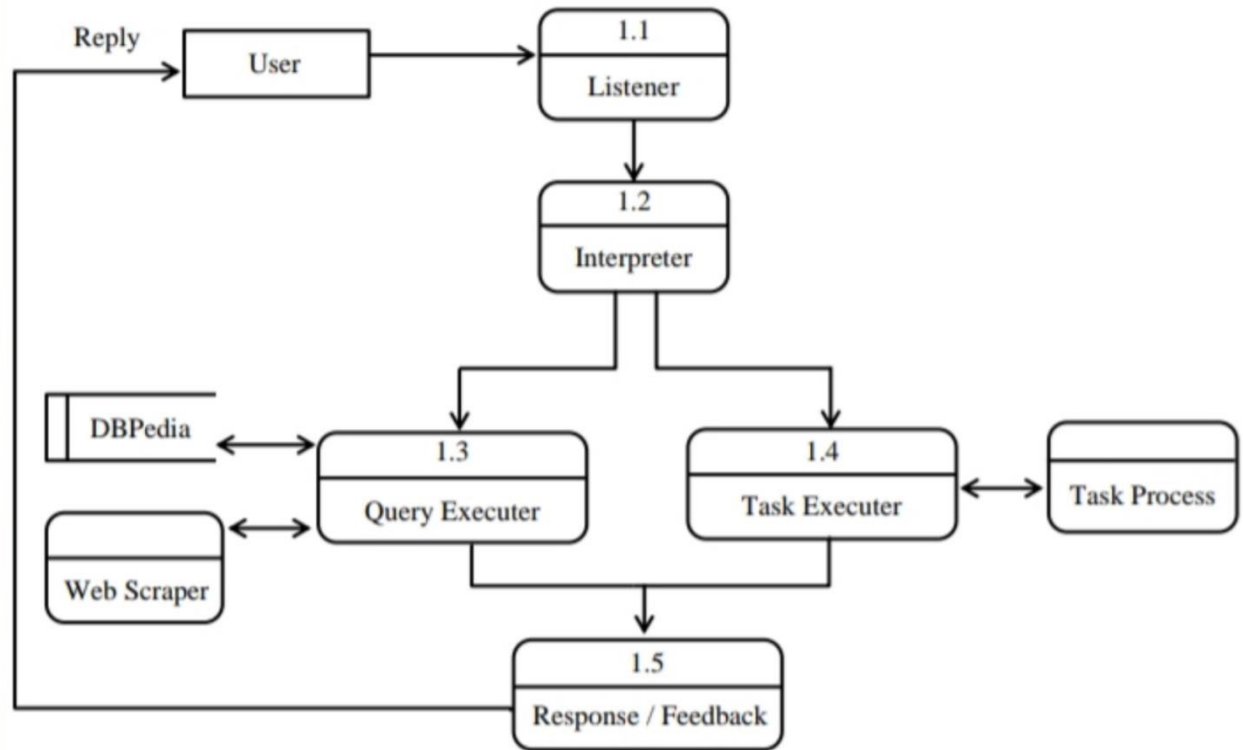
4.6.2 DFD Level 1



7

Data Flow Diagram (Level 2)

4.6.3 DFD Level 2

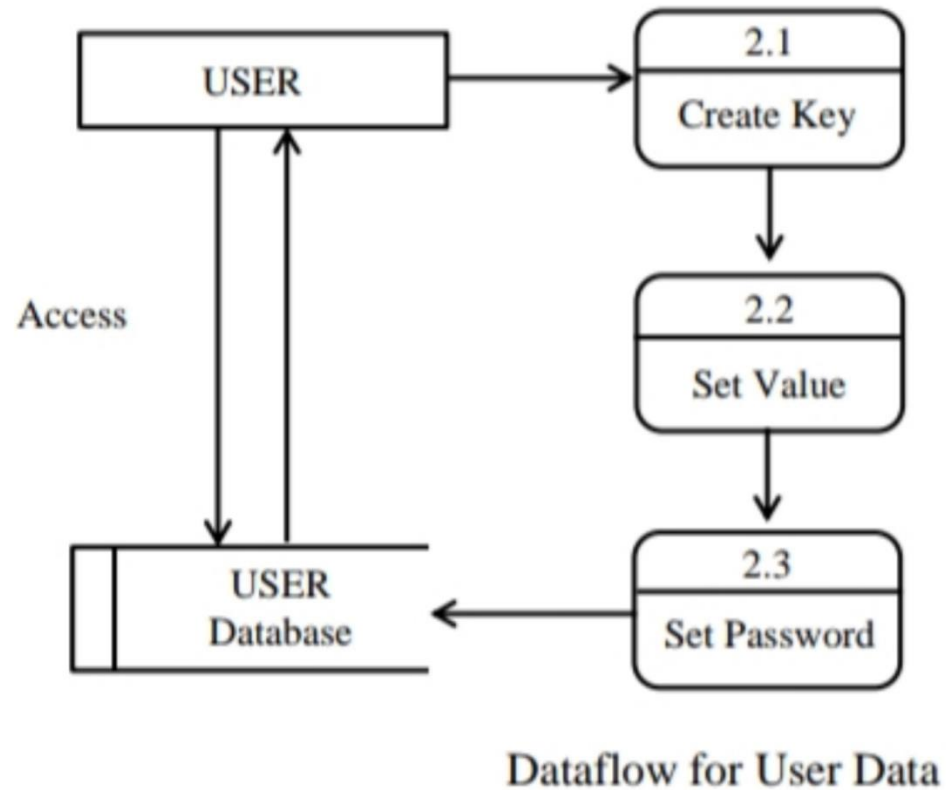


Data Flow in Assistance

8

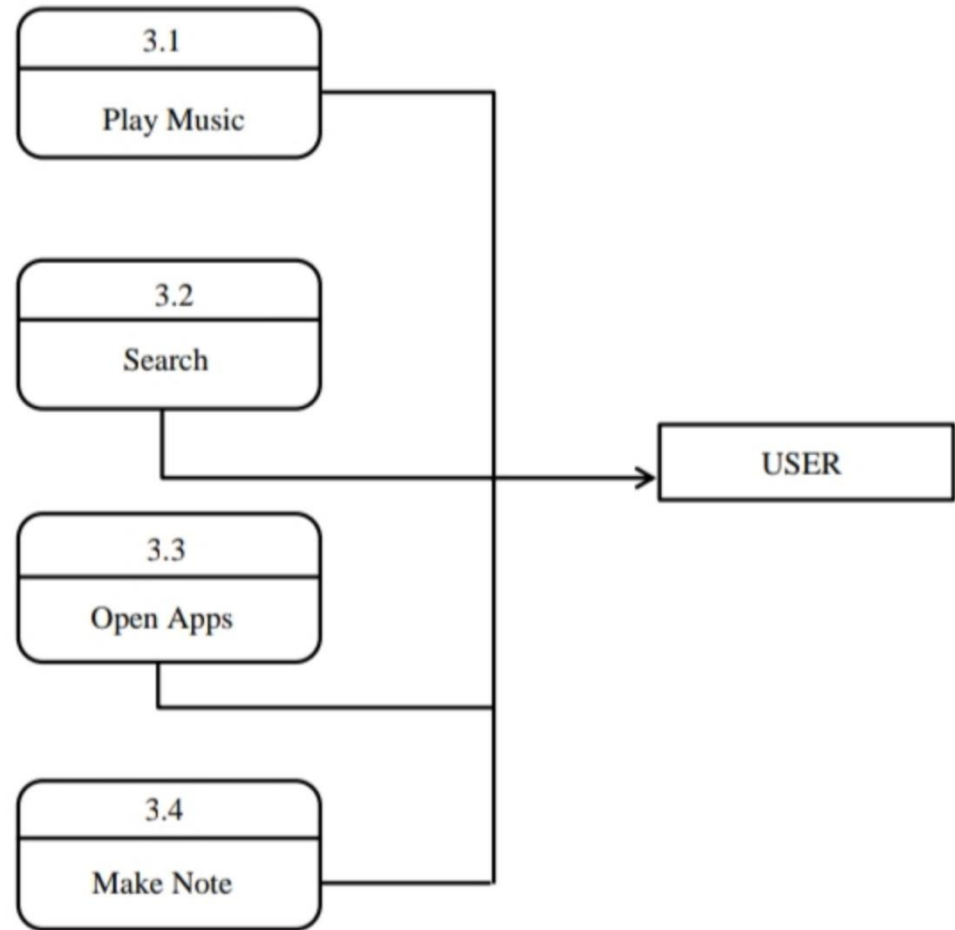
Data Flow Diagram

(Level 2)



9

Data Flow Diagram (Level 2)

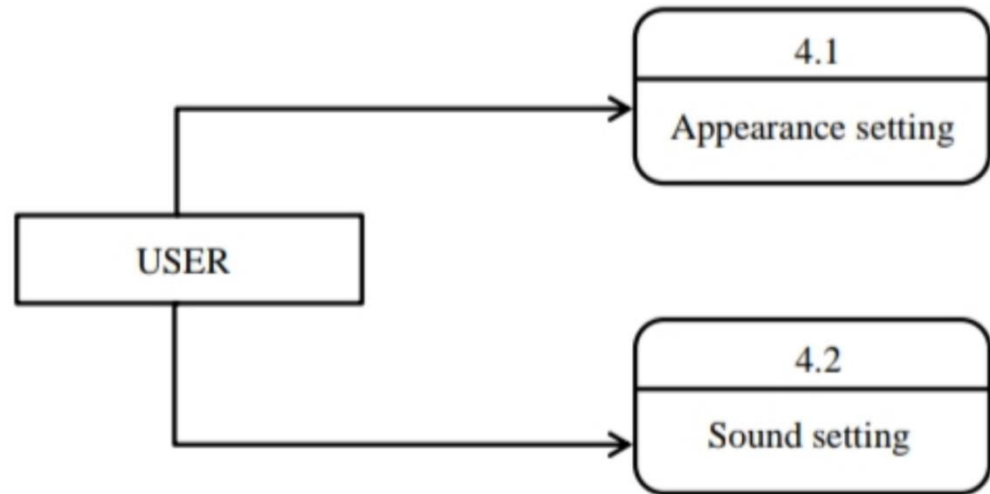


Data Flow in work

10

Data Flow Diagram

(Level 2)



Dataflow in setting

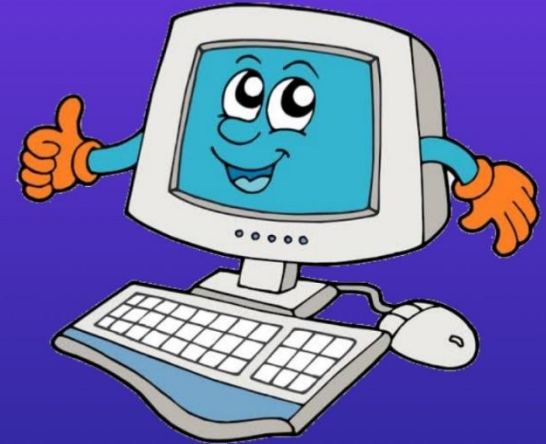


12.

Hardware & System Requirements

Hardware

- Sound cards
- Microphones
- Computer /Processors



System

1.6GHz Processor

- 512 MB or more of RAM
- Sound cards with very clear signals
- High quality Microphones

13.

Virtual Library Requirements

1. Speech Recognition

\$ pip install SpeechRecognition

2. Pytsx3

\$ pip install pytsx3

4. Request

\$ pip install requests

3. Wikipedia

\$ pip install Wikipedia

5. PyAudio

\$ pip install PyAudio

6. Date Time

इतना सब लागेगा
रे बाबा..



Advantages

- easily configured to perform many of regular tasks by simply giving voice commands.
- Voice based search that is a boon for many like senior citizens who are not comfortable using the keypad/keyboard.
- Able to write the text through both keyboard and voice input
- different notepad commands such as open save clear etc.
- Requires less consumption of time in writing text
- Lower operational costs
- Open different windows soft wares, based on voice input



अतिउत्तम..!

Disadvantages

- Not good in noisy place
- A user has to speak much louder and slower than their normal speed and volume

- Low accuracy

Speak loudly.



**Oh no..
Noo Noo...!**



Future plans & Scope

Future plans

- Password protection.
- Graphical user interface.
- Face Recognition.
- Try to add more functionality.

Scope

- Navigation
- Gaming
- Senior Citizens
- Physically disable people



* This presentation is blue print of 'Hey Meena' virtual assistant. In this project we discuss about how what is this software and how it performed.

* With respect to less cost and less disadvantages we will says that, this system can be have good future.

* We also saw the how artificial intelligence is the future of the upcoming modern world.

100 बात की
एक बात..!



Conclusion

18

THANK
you..!



Akashkumbhar89@gmail.com

