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## CONTENTS AT GLANCE

# ABSTRACT:

*Now a day people want a simple and quick responses not only from cell phones but now from their laptop or personal computer .Hence, We are creating this project in which we are combining the two different types of technique. They are the chatbot and virtual personal assistant which leads to our project and that is Personal Assist- Chatbot.*

*We choose this topic for as like our smartphones contain google assistant, we want something new for our laptops/pc. So we are creating the advance chatbot which will works as like our Personal Assistant, which will provide the solutions from their queries, it will listen to users order and perform the activity such as take screenshot, read pdf, it will also open any app which is present on their operating system which simply means this chatbot will listen all the instruction and perform the activity.*

# INTRODUCTION:

A chatbot is a conversational tool or a computer program that stimulates and process on human conversation. Chatbots can be as simple as basic programs that answer a simple query with a single-line response. They works on automated rules. We know that there are two types of chatbot namely Task oriented chatbots and Data driven and predictive chatbots.

**Personal Assist-chatbot** is a virtual assistant software application developed by us that is primarily available on laptop or personal Computer devices. Chatbot can engage in two-way conversations. Users primarily interact with the Personal Assistant through natural voice, though keyboard input is also supported. Assistant is able to answer questions, take screenshot, message on WhatsApp etc. on the user's device, play music, and more.

# MOTIVATION/PROBLEM STATEMENT:

Personal Assistant is a smart virtual assistant that lets you use voice commands to perform tasks or answer questions. Depending on the device, chatbot has different capabilities. Be more action-oriented. It helps users to take screenshot and read pdf , open apps, open file and etc. Whatever you want to do , Assistant can help your users get things done. It is designed to give you conversational interactions. Personal Assistant will: Control your devices . Access information from your calendars and other personal information.

# LITERATURE SURVEY:

**Title of Research Paper-1: PERSONAL VOICE ASSISTANT**

Name of Authors:- Mr. K. Vikram Reddy, S. Lahari, A. Naveen

Published by: Matrusri Engineering College, Saidabad, Hyderabad, Telangana

Published year: 2020

Methodology/ Technologies Used: Voice Analysis and conversational to text.

Conclusion: Voice Controlled Personal Assistant System will use the Natural language processing and can be integrated with Machine learning techniques to achieve a smart assistant that can perform action on various applications and will make human life comfortable. This application will also make life easier for those who are physically disabled and every common user who is fascinated by voice recognition.

**Title of Research Paper-2: Chatbots and virtual assistant: a bibliometric analysis**

Name of Authors: Agarwal, S., Agarwal, B. and Gupta, R.

Published by: Emerald Publishing Limited

Published year: 2022

Methodology/ Technology Used: Systematic literature review and bibliometric analysis is used to analyze the growth of literature on chatbots.

Conclusion: The study contains new and significant information as this study covers all industries where chatbots and virtual assistants are being applied whereas in previous literature only specific industry has been taken into consideration.
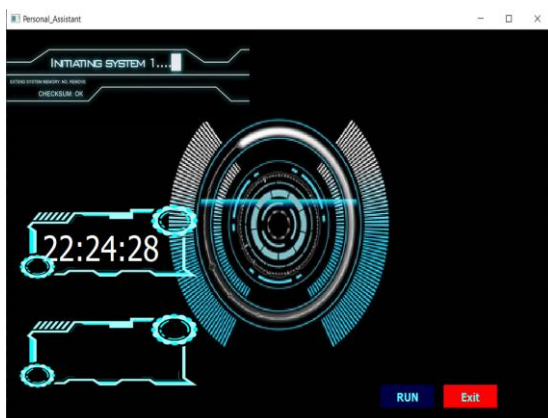
## TOOLS/SOFTWARE'S USED:

- VS Code
- Qt GUI Designer

## LANGUAGE USED:

Python 3.10.8

## RESEARCH METHODOLOGY:

The proposed Personal Assist- Chatbot is working with the Laptop/Desktop Systems. As shown in the figure, we are using Qt GUI Designer for making User Interface, V S Code for making work to assistant. The User Interface is integrated with the operating system using some modules of Python 3.10.8.



User Interface using Qt GUI Designer



Give response on terminal of V S Code

# IMPLEMENTATION/SIMULATION:

Firstly we import all required modules for various functions which we are implementing in project. Then we set the voice of assistant by creating speak method. Then we create the wish function for assistant by which it can wish the user according to the time.

Now, we use Tkinter for open the file explorer to select one of the pdf for reading. Then we create a class "MainThread" for accessing the variables of the function. After that, we create all the functions such as, takecommand(), search() for various instruction.

# RESULTS AND DISCUSSIONS:

Here we successfully created a Personal Assistant using Python 3.10.8 and Qt5 Designer.

# ADVANTAGES AND APPLICATIONS:

- Time saving
- Human efforts saving
- Message and Communication
- Laptop/Desktop commands and settings
- Location and Time

# CONCLUSION AND FUTURE SCOPE:

In this project, our goal is to develop a GUI based Personal Assistant for the users who didn't know very much about laptops and computers function or commands which gives the response by voice and take queries by voice.

**Future Scope:**

Future of Artificial Intelligence is as vast as the limits of human mind. We can always keep learning and teaching the computers how to learn. There is a bright future for Personal Assistant. The process of connecting the world virtually has generated vast amount of data which is boosting the adoption of Artificial Intelligence solutions. Where we can also add the ChatBot Using Artificial Intelligence.

# REFERENCES:

[1] PERSONAL VOICE ASSISTANT, Mr. K. Vikram Reddy, S. Lahari, A. Naveen

[2] Chatbots and virtual assistant: a bibliometric analysis, Agarwal, S., Agarwal, B. and Gupta, R.

[3] YouTube

[4] Qt5 documentation