

PROJECT REPORT

Smart Personal Assistant For Personal Computers

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1.Introduction-

1.1 Purpose:-

The main objective of this document is to illustrate the requirements of the project Smart Personal Assistant Jarvis. The document gives the detailed description of the both functional and non-functional requirements proposed by the client. The purpose of this project is to provide assistance to the client using it. The main purpose of this project is to maintain easy and friendly assistance to clients using computers and laptops.

1.2 Scope of Project:-

As the laptops and computers is used almost by everyone, but no one has a tendency to use it as a tool to save their own lives or the other's lives. So why not take more benefits from scope of features of the laptops and computers and extend it for our own welfare. Our project is aimed to be used by everyone who owns a laptops and computers irrespective of brand.

Furthermore our application will perform users' command requests, which is texting, mailing, coding etc. In terms of advantages we can say that the driver will not need to buy anything in order to use this application. The purpose of this project is to reduce problems while using laptops and computers and ease user experience. This will also help user new to using computer or laptops ease their experience and help them in learning the working of computer. This is mainly for developers and coders but can also be used by other users helping those works through voice commands. The only way of 'communication' between the driver and his/her computer and laptops will be his/her voice and the application's voice.

2.Functionality:-

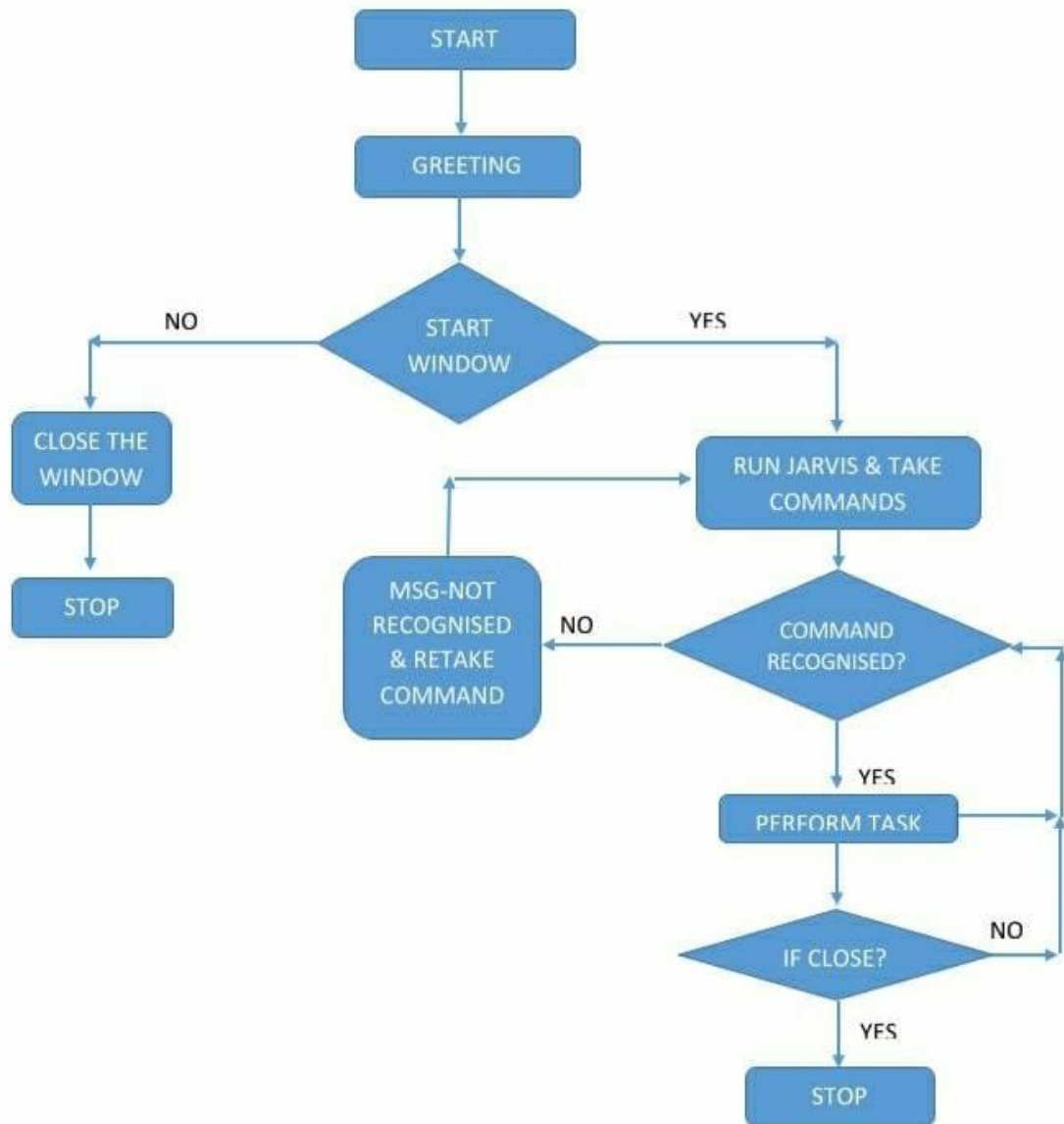
Driver will interact with laptops and computers using voice commands. Driver will be supplied with the following functionalities without any requirement for physical contact:

- Speech to text Conversion making the system usage easy.
- Making user handle multiple scenarios
- Decreasing the inputs from user physical
- Multitasking possible
- Pacing the works to be done

This assistant performs following task :

- Opening task manager,Setting,Youtube,Google,Calculator
- Opening new tab,tell the weather of particular city,capturing screenshots.
- Taking note and save the note tell the current time and date.
- Shut down and searching software.
- changing Backgroud and searching installed apps.
- Opening device manager,vs code,Gmail,Pycharm

3.Flow of Execution the Project :-



4.Requirements:

This project is purely made in python and along with python it uses some built in library.

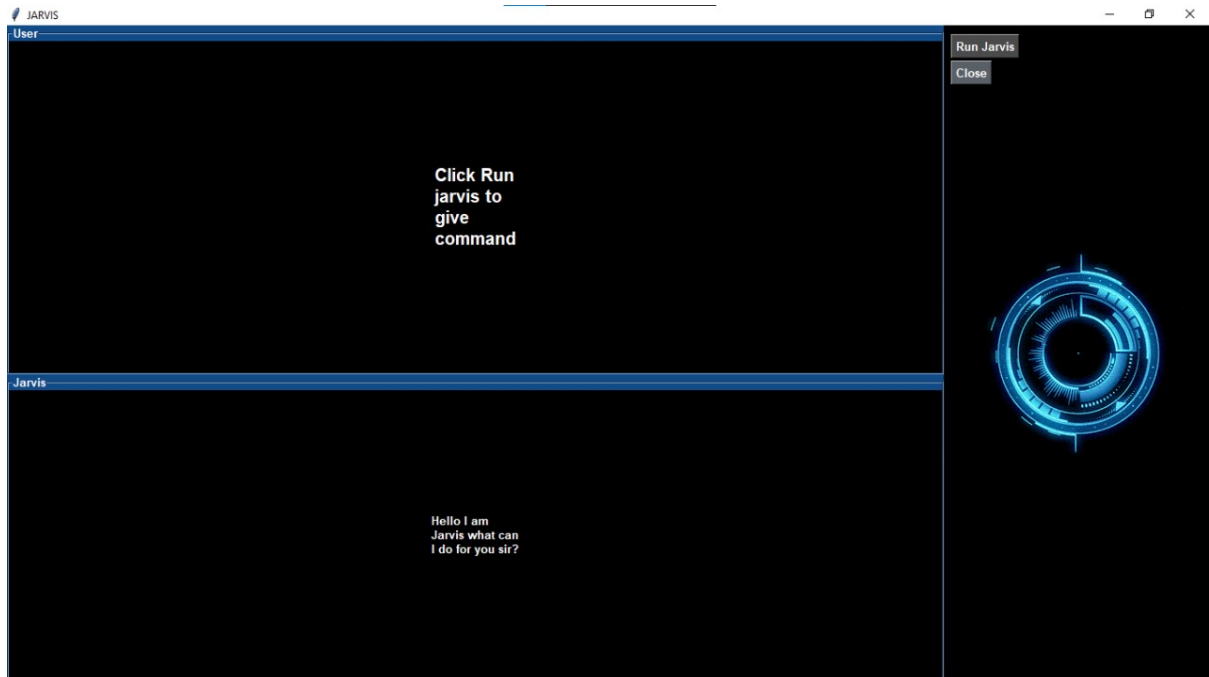
We know, Python is a general-purpose programming language, which is another way to say that it can be used for nearly everything. Most importantly, it is an interpreted language, which means that the written code is not actually translated to a computer-readable format at runtime.

Some of Libraries that used in Project:

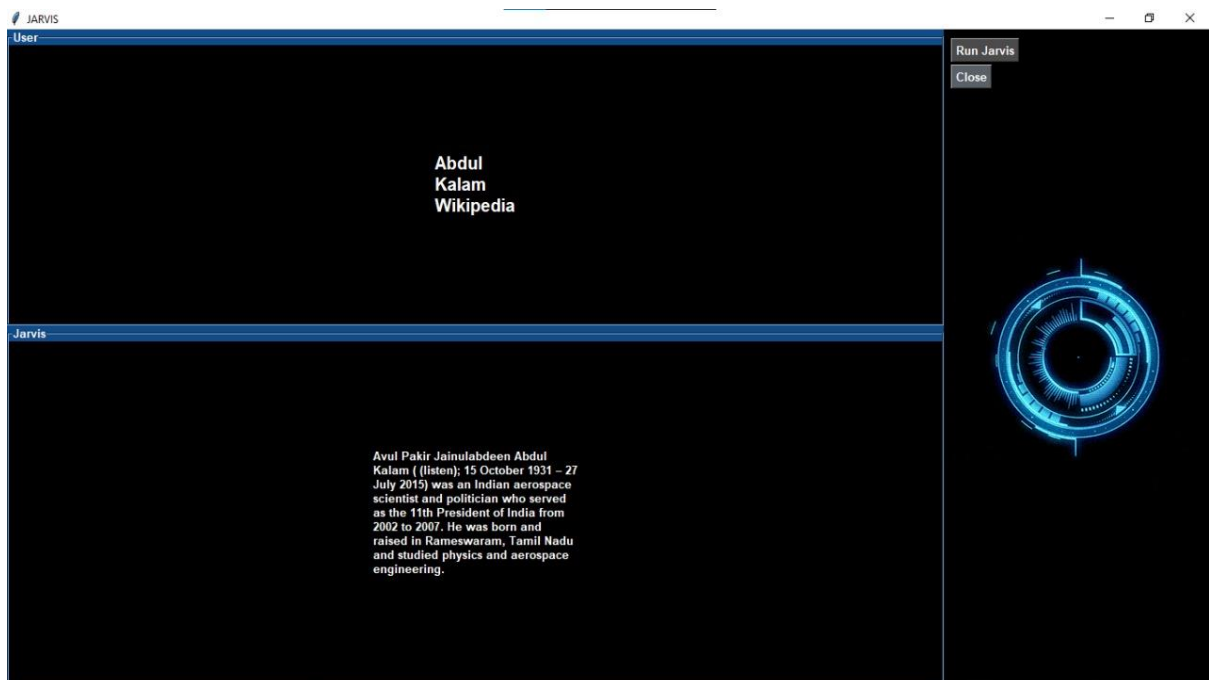
- speech_recognition -> It allows the user to interact with their computer or laptop through speech.
- pyttsx3 -> It is a text to speech library in python.
- Datetime -> displays current date and time.
- Os -> It provides functions for interacting with operating system.
- PyautoGUI -> It is a cross platform GUI automation python module .
- win32com.client -> It provides a bunch of methods to get excited about and one of them is the dispatch method of the library.

5. Output Screenshots:-

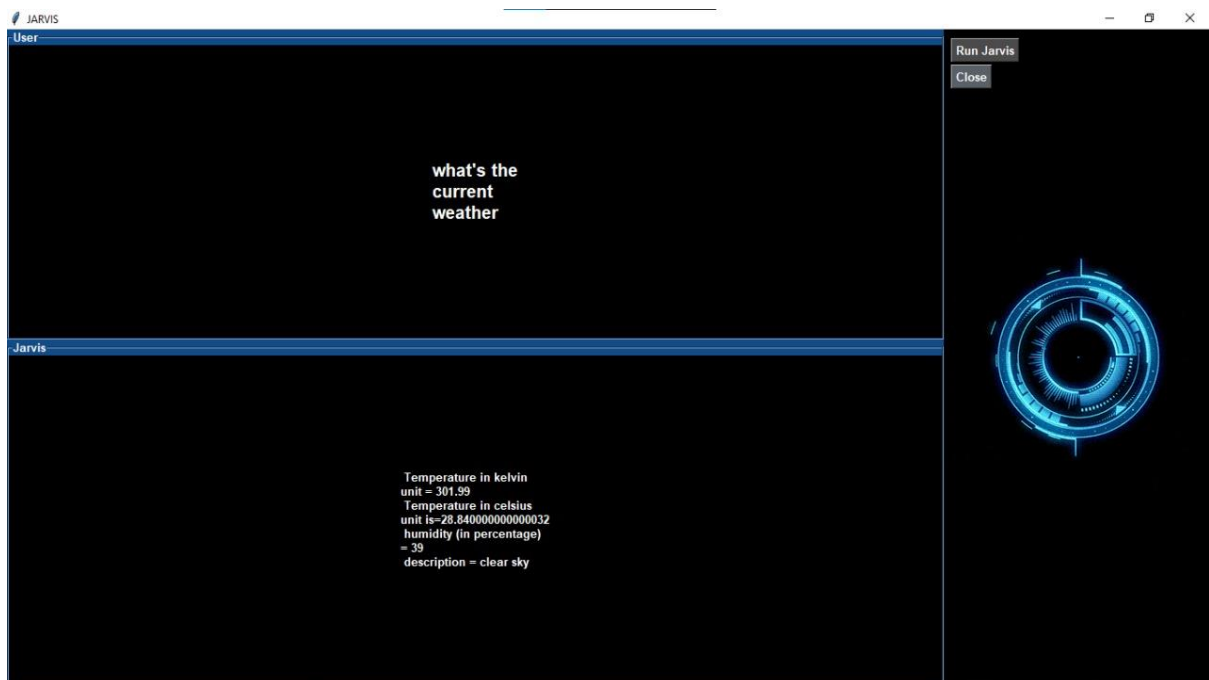
i. Greeting from assistant:-



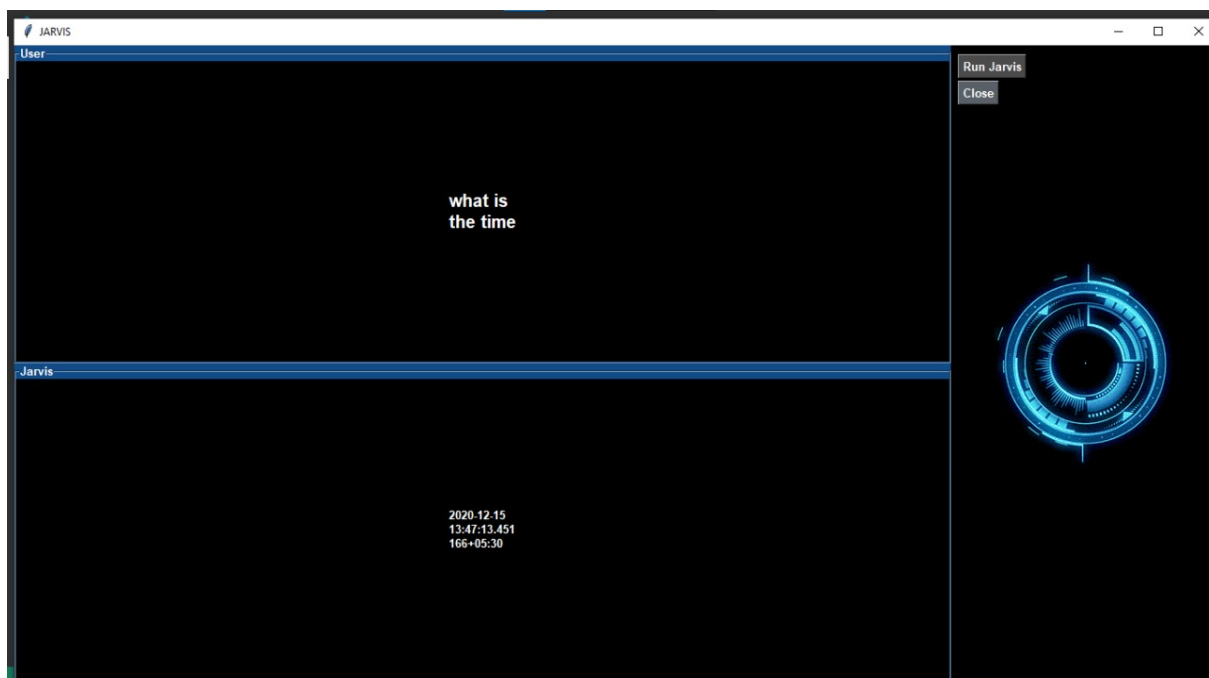
ii. Searching on google:-



iii.with the help of assistant knowing current weather:-



iv.with the help of assistant knowing current time:-



v.Assistant searching software:-



6.Conclusion:-

In these way,we have implemented smart personal assistant which is useful for any user which have laptop or computer.

Thank You !!