

Project Proposal

Voice based virtual assistant for Windows.

CSE 422 :: Artificial Intelligence Lab

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Project name: Voice based virtual assistant for Windows.

The system is voice based personal assistant for windows operating system. It's a useful tool for open an application, search something just by speaking it up. When user need to open any application, he/she can use the command "Open". Like: "Open Notepad". This will help to open the application. When user want to write the message can use "Write" command. And to for searching purpose "Search" command can be use.

It will detect the speech and save in the database, and retrieve from the

database and execute command and delete it from database.

Features

Speech to Text: User will ask the computer to run command by giving

input as speech.

Command Execution: Based on command received from the user, system will execute the command (if available). e.g. Open Notepad, Paint, Google Chrome, etc. System accept various command such as opening of specific applications, writing a note and saving it, opening web URL, Search for any query or details and shutdown & Restart

Text to Speech:

Once a command is received, application speaks the

Command which make user experience more interactive with the system.

Hardware Requirement:

- i3 Processor based
- Memory: 1 GB
- Hard Drive: 50 GB
- Monitor
- Microphone

- Internet Connection

Software Requirement:

- Windows 7 or higher
- Visual Studio
- SQL Server
- Google Chrome Browser

Advantages:

- It will convert text to speech.
- It will assist you to find the applications easily.
- It can be used in windows 7.

Limitation:

- Data need to be entered properly otherwise outcome may not be accurate.