STUDY OF PROJECT:

Today, Alexa and Cortana are voice assistants used to control devices by voice commands. However, due to privacy concerns, inaccurate outputs, poor predictions, and low time efficiency, Cortana has ceased operations. In day-to-day life, people are losing interest in using these voice assistants.

One day,we have created a voice assistant for Windows. With our collective ideas, we embarked on the task of developing a voice assistant that prioritized accuracy, time efficiency, user-friendliness, and minimized data redundancy. Drawing upon the concepts we studied in college, we diligently crafted the voice assistant to meet these objectives.

We can control the laptop using voice commands.

CASE STUDY:

Case1:

Opening websites in web browsers using voice commands raises privacy concerns for websites. Many voice assistants fail to address this issue adequately. To tackle this problem, we've implemented a logic solution. For instance, if a user says, "Play Avengers End Game on Hotstar," the system will execute the command precisely as voiced. The browsing speed is influenced by the user's network stability. Additionally, the proximity between the laptop and the user affects browsing speed positively. Lastly, clear voice prompts contribute to efficient browsing.

Case2:

Sometimes, in file explorer, when we search for a file using the search bar, it doesn't always display the desired file. In response to this issue, we have decided to develop a searching algorithm to enhance the accuracy and efficiency of file searches, even when the file name is inaccurate. With this algorithm, users can provide voice input to automatically open the desired file.

Case3:

Included within our voice assistant functionality are options to upload, save, print, send, and share, aimed at facilitating rapid task completion for users.

Case4:

Today, for online communication, people are primarily using WhatsApp. However, a major problem arises when many individuals are not proficient in texting. To address this issue, we have devised a solution. By allowing users to give voice commands, their messages will be automatically transcribed and sent in the manner they intended. This feature not only saves time for composing lengthy texts but also proves invaluable for individuals with physical disabilities. or those who simply prefer not to type.

Case5:

For many individuals who aren't inclined to use laptop commands manually, we've implemented a logic where they can input their commands via voice, which will then be automatically execute and open as per user given input.

Using our code, the system is controlled by voice, accommodating the maximum number of users participating in the system.