

NATIONAL UNIVERSITY OF  
COMPUTER AND EMERGING SCIENCES

FINAL PROJECT REPORT

TOPIC: VOICE\_CONTROL\_SHELL

COURSE: OPERATING SYSTEMS

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1.INTRODUCTION

This project attempts to provide a software program that enables voice instructions to be used to operate a computer. The program will give users an alternative to conventional command-line interfaces, which call for human command entry. Users will be able to use the Voice Control Shell to voice-execute instructions, launch apps, and complete other operations.

2. PROBLEM STATEMENT

To automate computer use and streamline the execution of procedures by developing a voice-controlled shell that listens to voice commands and executes shell scripts and instructions. Our main concern is to make life easier for users and make sure that those who are not familiar with scripting may use the main commands through straightforward voice commands.

3.METHODOLOGY:

Python Language and Dependencies are used to create the Voice Control Shell. Python, a popular language for creating desktop programs, hence is used to construct the application. The program will translate the user's vocal commands into text using speech recognition API. The user's intent will subsequently be determined by processing the text using natural language processing techniques. The application will issue the appropriate command or carry out the desired action after the purpose has been determined.

4.CONCLUSION

A promising idea called the Voice Control Shell will give users a more practical and approachable method to communicate with their computers. To provide a smooth user experience, the application will make use of the most recent developments in speech recognition and natural language processing technology. The Voice Control Shell will be a perfect tool for anyone trying to increase productivity and improve workflow thanks to its user-friendly interface and support for custom commands.