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***National University of Computer & Emerging Sciences***

***(FAST-NU)***

***Operating Systems Project Report***

***[ Project Name: Voice Controlled Shell]***

***Instructor***

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***Project Team***

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1. **Project Description**

In computing, a shell is a user interface for access to an operating system's services. In general, operating system shells use either a command-line interface (CLI) or graphical user interface (GUI), depending on a computer's role and particular operation. Our project is a new take on the traditional methods to use shells. Our voice controlled shell uses voice commands to run bash scripts that perform various tasks like informing the user of the time, date, changing directories, shutting the machine down etc. We are using a Google API for Speech-to-text (STS) and Text-to-speech(TTS) services.

1. **Problem Statement**

To create a voice controlled shell that responds to voice commands and executes shell scripts in order to simplify the process of executing processes and to automate the use of the computer itself.

1. **Procedure and Method/implementation (You applied)**
2. **Project Result**
3. **References**

<https://atwing.net/home%20automation/shell-commands-assistant/>

<http://www.kscst.iisc.ernet.in/spp/40_series/39S_bestprojreports/39S_BE_1732.pdf>

<https://www.noobslab.com/2014/06/control-your-ubuntulinux-mint-system.html>