

**DESIGN PROJECT:
VOICE-BASED EMAIL SYSTEM FOR THE VISUALLY
IMPAIRED**

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AREA: Natural Language Processing
TOPIC: Voice-based Email System for the Visually Impaired

Reference paper:

VOICE-BASED EMAIL SYSTEM FOR THE BLIND

Abstract-

In today's world, Communication has become so easy due to the integration of communication technologies with internet. However, the visually challenged people find it very difficult to utilize this technology because of the fact that using them requires visual perception. Even though many new advancements have been implemented to help them use the computers efficiently, no naïve user who is visually challenged can use this technology as efficiently as a normal naïve user can do, i.e., unlike normal users, they require some practice for using the available technologies. This paper aims at developing an email system that will help even a naïve visually impaired person to use the services for communication without previous training. The system will not let the user make use of keyboard; instead will work only on mouse operation and speech conversion to text. Also, this system can be used by any normal person too, for instance, one who is not able to read. The system is completely based on interactive voice response which will make it user friendly and efficient to use.