Abstract

This paper aims to develop an embedded system which is used to control the home appliances through voice and mobile for the visually impaired people and also for the physically challenged people. Though various techniques have been proposed and are available currently, most of them are not user friendly for the visually impaired people and thus a friendly system has been developed for them. As speech is the preferred mode of operation for these people, this project intends to make use of voice oriented command words for controlling purposes. Further the hand-held unit has a microphone to receive the voice input and is a wireless module which uses the Radio Frequency (RF) technology. This project uses the DTMF technique in the mobile device so as to avoid any scenario involving visual interaction for the benefit of the user. Also in this module there is a voice feedback as an acknowledgement both for the voice controlled automation and automation through mobile.

References

Embedded Home Automation for Visually Impaired


Index Terms

Computer Science Automation

Keywords

Dtmf Technology Embedded System Home Automation Pic Microcontroller Rf Technology
Voice Feedback