

Automation of Control System in Home Appliances using Voice Controller Application

Indhuja V, Suganandhini, Thenmoze and Vinodhini

Alpha College of Engineering & Technology

ABSTRACT

In today's world, the Internet has enormous usage of IoT. It conceptualizes the idea of connecting and monitoring real-world objects through the network for developing and accessing devices in an easy way for almost everything. Among them, one of the representative fields of the IoT process is achieving a home devices controller using a home automation system by connecting several electrical home appliances to the network. The rise of this appeal of network to implement home automation is reaching a peak in recent days for its simplicity and proportionate affordability. A platform based on a network to connect things in a home of each appliance can be accessed anytime from anywhere in a user-friendly manner using custom-defined application. Hence the main source for connecting appliance is Raspberry-pi from a four-socket box that is sent to the AWS cloud and it transfers the data signal to the user registered email in the way of notification. This notification alerts us whether the devices are in ON state or not. So, the owner can access the home devices to Turn OFF from any distance using a networking mobile application. This automation system will have the ability to recognize a user voice using an Alexa. And it provides security since the user's voice is already recorded and trained so that the system perfectly recognizes only his or her unique user voice. So, this system is designed with voice recognition for controlling all home automation systems to make a smart home with low electricity energy and human energy consumption.

