Abstract

Today everyone is living in a world that is dominated by technology. To be able to develop a product using the current technology that will be helpful to various people is a big contribution to society. This research paper represents the idea, design and implementation of a low cost but yet easily accessible android based Entity Coordinator system. The purpose of this project is to build an Intelligent Entity Coordinator to control switching of home appliances from any part of the world having an internet access. This will lead to less consumption of energy in case a person forgets to turn off their home appliances. As we know that, electricity is precious and should be used in an efficient way, this project will help others to build an efficient habit towards the electricity conservation. The design is based on Node MCU board and the home appliances are connected to the input/ output ports of this board via relays. The communication between the Android device and the Node MCU board is through Cloud Mqtt. This system is developed to be low cost and scalable allowing variety of devices to be controlled with minimum changes to its core. Also, the artificial intelligence is used for the user interaction better.
References

5. https://researchgate.net/figure/The-pin-configuration-of-Node-MCU_fig3_323138617
6. https://m.eet.com/media/1171446/0912embmqtt01.png

Index Terms

Computer Science  Automated Systems

Keywords

Iot, Mqtt, Android, Cloud Mqtt, Energy Conservation