Controlling household electric devices automatically and remotely is of great beneficial and energy saving in modern life. We can design a small IoT based setup that can do a lot of work for us to make life easier. This system can be used in home, office, industries and all other places. Even we can use the system in the case of street light. Disabled people can be greatly benefited by using the system. To implement the system, we need a micro-controller with WIFI module to connect to the Internet. A front-end mobile application and a backend server will work together to make the project work smartly and intelligently. A student residence named ‘Shaheed Abdur Rab Hall’ in Chittagong University, Bangladesh has been considered for the implementation of the proposed system. It has been found that 24% energy can be saved using the proposed system and it found very much cost effective.

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Index Terms

Computer Science

Circuits and Systems

Keywords

IoT, Home-automation, nodeMCU, WIFI module, Cloud Server, Remote Controlling, Energy Saving, Energy Costing