Alexa Based Home Automation

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Abstract: *It is an Iot based paper where designed and implemented smart home system. The purpose is behind of that paper that control the switching of home like fan on or off, lights on or off and specially control the all requirements in home. Alexa is used in this and it is work quickly within a second. Alexa is capable of voice interaction, music playback, making to-do lists, setting alarms, streaming podcasts, playing audio books, and providing weather, traffic, and other real-time information. Alexa can also control several smart devices using itself as a home automation hub. We will use on this project, the "Echo Dot", which allows users to activate the device using a wake-word, such as "Alexa" or "Computer", as in "Star Trek! In the home automation space, Alexa can interact with several different devices like Philips Hue, Belkin WeMo, Sonoff, etc. We emulated WeMo devices on previous projects, using the fauxmo ESP library, which seems outdated and not adequately maintained nowadays. Here we will use mat protocol that which helps for the communication.*

Keywords: IOT, MQTT, VPA, Google assistant, WIFI, Node MCU

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