Industrial Automation with Mobile Application

IoT or Internet of things is a technology that deals with bringing control of physical devices over the internet.

Here, I propose an efficient industrial automation system that allows users to efficiently control industry appliances/machines over the internet. For a demonstration of this system, we use 2 loads as industrial appliances or machines and 2 motors to demonstrate an industrial motor.

This system uses ESP8266 as a microcontroller for processing all user commands which also has an inbuilt wi-fi module to connect to the internet and receive user commands from a mobile application which is mainly designed for controlling this system.

components Required:

- Node MCU
- 4 Channel Relay Module
- 100 RPM Motor
- BO Motor
- 12v LEDs x 2
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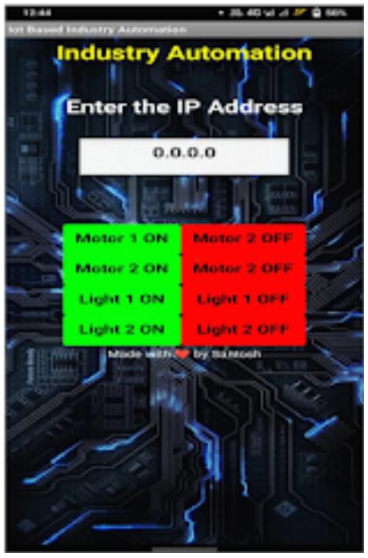
On sending commands through the Internet, they are first received by the wi-fi module. The module decodes the received information and passes it to the microcontroller for further processing. The microcontroller then switches loads and operates the motors as per received commands.



- This is the interface of the mobile application that I have developed for controlling the machinery in the Industries.
- This Application consists of ON & OFF buttons for controlling purposes and a text box in which we need to enter the IP Address of the network.
- This Application was developed through **MIT APP INVENTOR.**

OUTPUT :