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Title: Home Automation System

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Title:

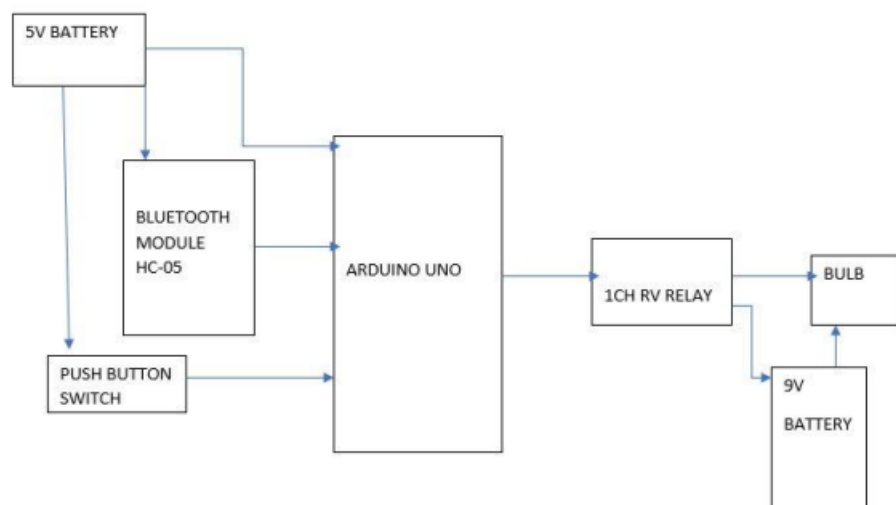
Embedded systems and Iot

Embedded systems refer to computer systems designed to perform specific functions within a larger device or system. They are typically composed of microcontrollers or microprocessors that are embedded into hardware and operate with limited resources. These systems are dedicated to performing a specific task, such as controlling machinery, monitoring sensors, or managing communication protocols.

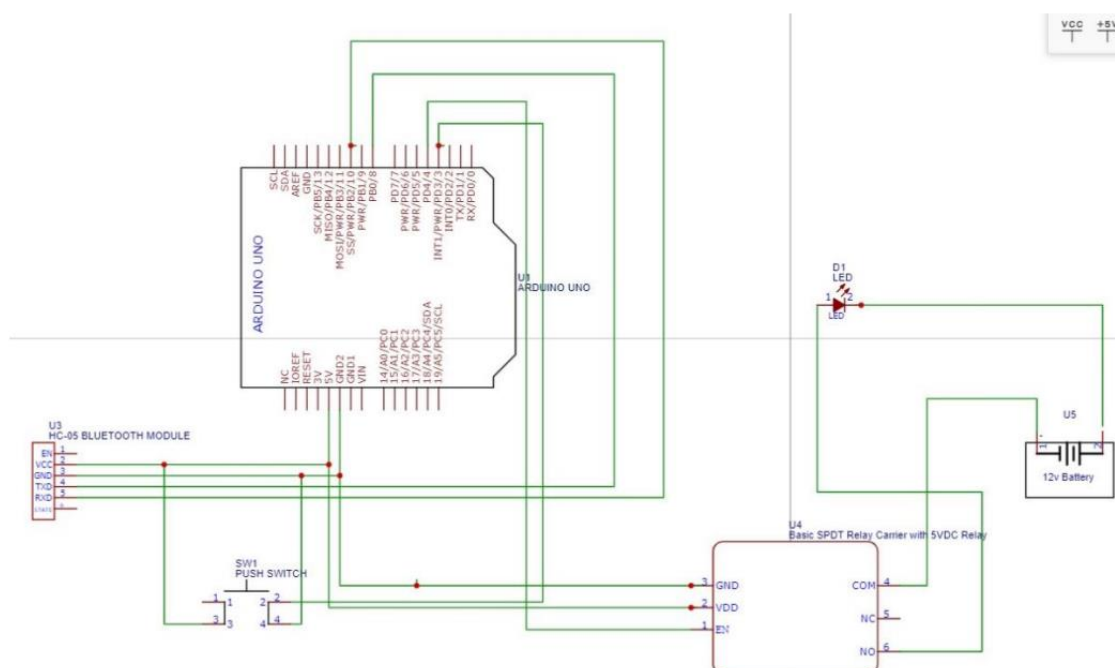
Heading1 : Project Description

In this project we will make Bluetooth light switch. In each wall switch you will find two wires, once the two wires are connected the power will be sent to the light for it to turn on. we will connect the wires using a relay which is an automated switch. If the relay will get power the two wires will be connected, and if it will be off the two wires will not be connected

Heading2 : Block Diagram



Heading3: Circuit Diagram



Heading 5: Challenges Faced

Had to know about the flowchart efficiently and tried to build a block diagram of the circuit.

Hence we searched about them in internet and used AI tools for better understanding .

The doubt session helped us to clarify the doubts regarding the project.

Heading 6: Conclusion

With the help of Raspberry Pi we can do IoT, Home automation, Robotics, Security system etc. IoT is deployed for Smart homes, Wearables (watches and bracelets), Smart Cars, Smart farming, Smart Retail, Smart Grids, Smart city, and smart healthcare. With such a broad spectrum of applications, the future of IoT looks more promising than ever before.

References:

<https://www.electronicsforu.com/technology-trends/tech-focus/role-iiot-home-automation>

<https://www.slideshare.net/Aakashkumar276/project-report-on-home-automation-using-by-bluetooth>

