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DIGITAL HOME CONTROL SYSTEM USING 1SHEELD

SUMMARY OF INVENTION

Digital Home Control System developed by using Android smartphone software through 1sheeld Bluetooth module and Arduino Uno interface. This control system will control home facilities ON/OFF button by using smartphone as a switch which is connected using 1sheeld application. 1sheeld module has a very efficient operation, as it can ON/OFF switch through Android software provided with push button, ON/OFF button, slider, keypad, etc.

OBJECTIVES

- Ability to control home facilities through smartphone.
- Ability to learn a new high level C-programming languages.
- Ability to learn more about 1sheeld bluetooth module and Arduino Uno system.
- Ability to solve problem involving application, electronic circuits and programming.

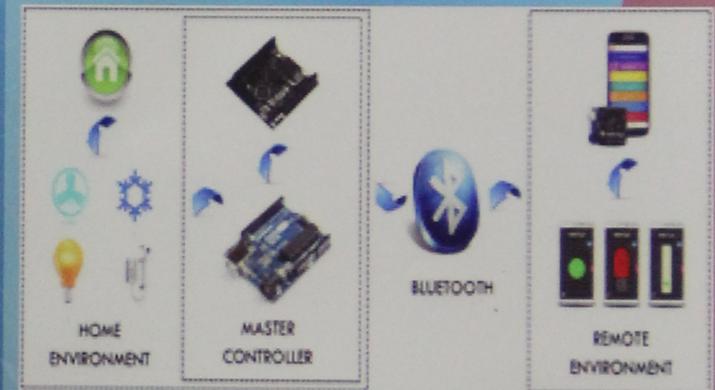
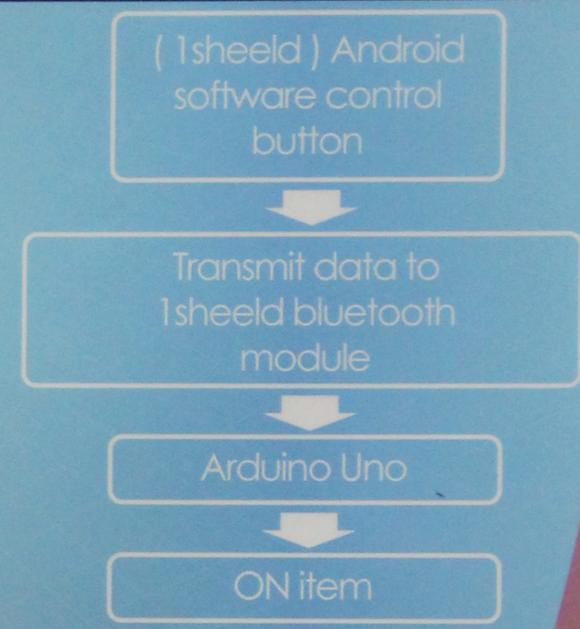
PROBLEMS STATEMENT

We are too depending on a button to control any switch for home facilities. It gives limited range for us to control each of button. U need to push for every single button switch in chase u want use any home facilities like lamp, fan, aircond, etc. Why don't we put all home control system in one place?. The inspiration for this project is due to the motivation of finding a new way to control smart home system through smartphone application.

RESEARCH SCOPE

This project focus on interaction Arduino Uno microcontroller, 1sheeld Bluetooth module, LED and to interface the component together and use C language to create a program that can receive the data from the 1sheeld Android software install in smartphone and send the data to 1sheeld Bluetooth module. Data processed through Arduino Uno microcontroller and sent for hardware interaction.

BLOCK DIAGRAM



EQUIPMENT LIST

Num.	Equipment	Quantity
1.	Arduino Uno Rev3-Main Board	1
2.	1sheeld Bluetooth Module	1
3.	LED	10
4.	Fan	1
5.	Battery 9V	1
6.	Breadboard	1
7.	Wire jumper	20
8.	Resistor	5

