

HACETTEPE UNIVERSITY DEPARTMENT OF COMPUTER ENGINEERING

BBM 460 SOFTWARE PROJECT PROCESS



Arduino & Bluetooth Based Home Automation

Group Name : Make Wifi Great Again

Group No: 10

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1) What did you do in the project?

I supplied the necessary hardwares.

After the supplied hardwares arrived, I connected the equipments with jumper cables.

After connecting the equipments, I connected the lamps and the energy source to the relay board.

After all connections were made, I searched the necessary codes in the Arduino compiler on the computer, wrote the program and uploaded to Arduionu Uno.

I wrote Application over Android Studio to send a bluetooth signal from the phone.

I did tests on the circuit established by sending bluetooth signals from my phone.

After providing the main purpose, I tried to integrate google assistant into the android application

2) What stage are you in your project?

I finished the project.

3) What stages of your project have not been done?

Every stage of the project has been done. There are no Stages not done.

4) Will you be able to do your project according to your planned schedule?

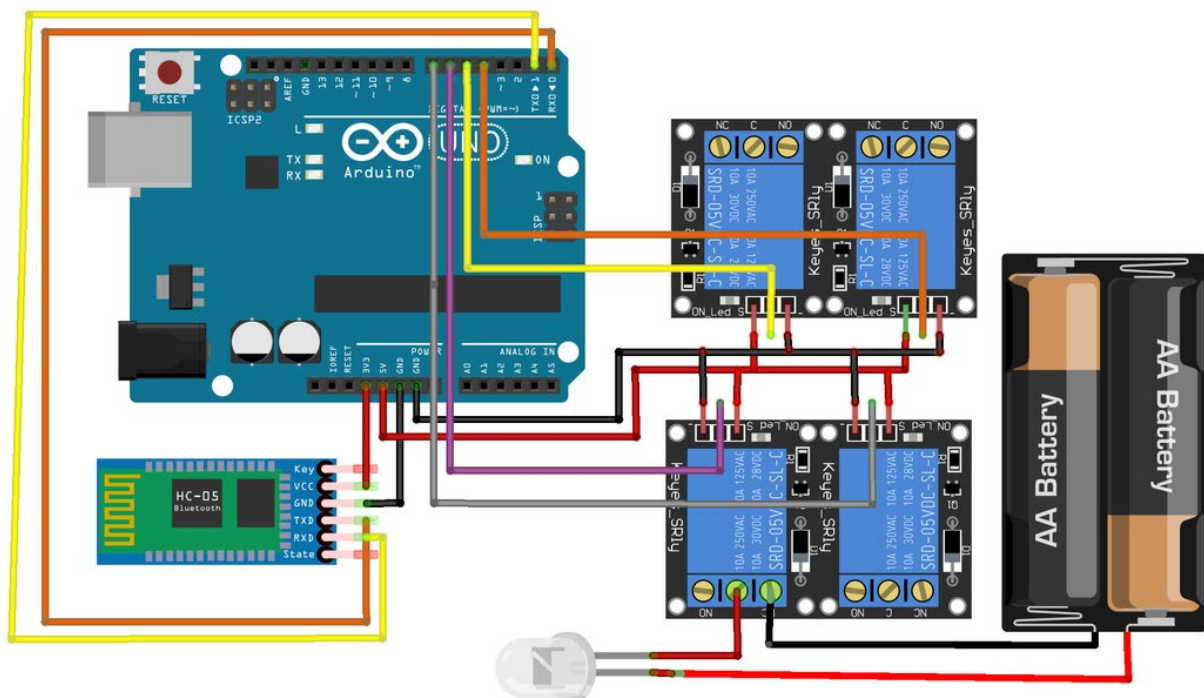
Yes, the project was done as planned.

5) Are there any changes in your project plan?

Finally, I added a new item to the project plan. This item is to give commands with google assistant and send signals to bluetooth module with this command.

6) Are there any changes in your project?

I changed the connection scheme of the circuit.
The new circuit diagram is as in the picture below.



7) Are there any problems with your project?

Connecting via Bluetooth.

Google Assistant not understanding words well.

Limited to Short distance.

Limited communication possible.

There is no fast communication.