

Speech controlled home automation

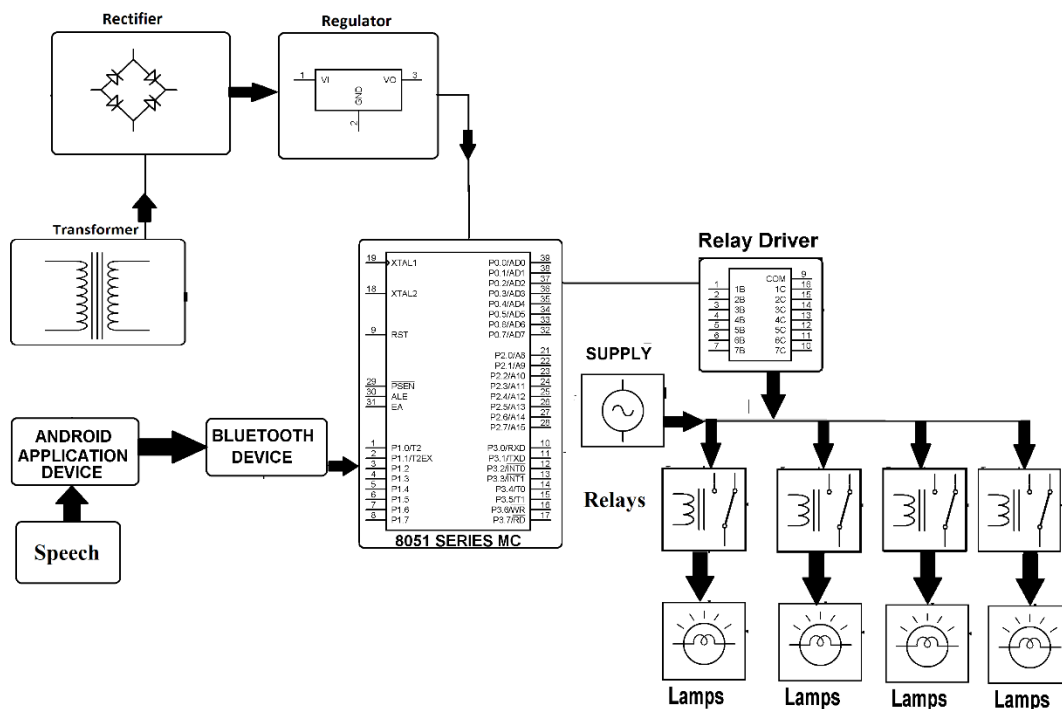
Introduction:

In today's modern technology world, where almost all the electronic devices or appliances can be remotely controlled, This project which would help an individual to control the lights, fans etc. by just talking to them. This project is called 'Speech Controlled Home Automation' which enables a user to control the home appliances through voice commands sent to an Android app.

The project Voice controlled home automation helps to control the electrical loads based on Bluetooth input signal. The Bluetooth device receives this input signal from android device. This system is especially beneficial in case of handicapped or aged people who find it difficult to walk and operate the electrical switches to turn on or off the loads. This system solves this issue as now the user just has to give voice commands to turn on or off the loads.

Here 4 loads are used to demonstrate light, fan, heater and AC. All these loads can be individually turned ON/OFF or all loads at the same time. This system solves the issue by interfacing a unit with home appliances that switches these loads based on the input received from android device.

Block Diagram:



Applications and Advantages:

1. Home automation using voice control can help disabled persons use appliances with ease
2. The Internet is not required for using this project
3. Multiple devices/appliances can be controlled using one Android device.

Future Scope:

1. This system can be further modified so that user can vary the speed of Fan. It can even be modified to control the buzzer volume.
2. Speech Controlled Device controlling can be further upgraded using Internet of Things – i.e. IOT technology.