



We Make You Shine
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Long Distance Switching

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ABSTRACT - LONG DISTANCE SWITCHING , Our Project uses **IOT** and **Cloud Computing** to Access your Home Electronic state and Switch their State to ON and OFF from Anywhere using Mobile or Smart phone(Internet access required). By Using our Project you can Control upto 14 AC devices Simultaneously, Currently one is shown for Demo.

The Possible Applications of our Project are :

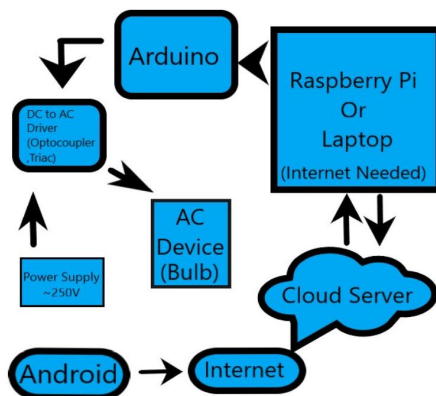
Wireless Pump Control
Wireless Valve Actuation
Wireless Conveyor Control
Wireless Light Control
Distant Wireless Automation
Home Appliances,etc.....

THE WORKING:

The Home appliances which are to be operated should be Connected to the Appropriate Sockets of Smart Switching Box(AC controlled by DC(Optocoupler)) Provided by us.The Smart Switch Box Consists of a Raspberry Pi or Laptop which should be Connected to Internet and the Arduino Plugged in to Raspberry Pi which access Response from our Cloud server and Switches Circuits.On Operating Side or Other Side you need a Smart Phone with internet Connection to Control your Home Appliances from our Globally Accessible Private Server UI using Browser.

Index Terms—Internet of thing (IoT), Long Distant Switching, Arduino, Cloud Computing(using AWS), Scripting(Python,JS,HTML).

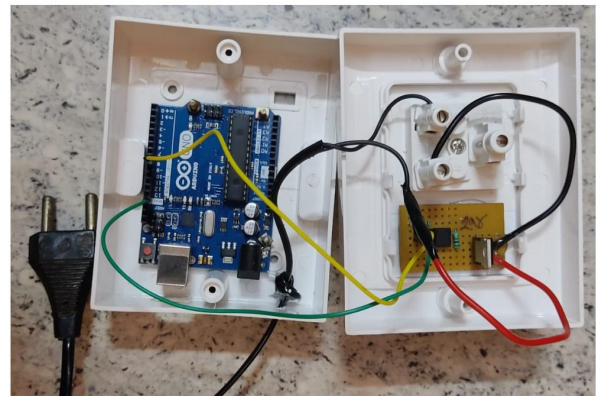
BLOCK DIAGRAM :



COMPONENTS REQUIRED :

1. Arduino UNO
2. Optocoupler (ET3021) , Traic (BT136)
3. Laptop or Raspberry Pi

EXPERIMENTAL SETUP:



OUTPUT RESULT:

