# Voice Controlled Home Automation System







## PROTEUS





#### **Component Used?**

Arduino uno

WIFI Shield

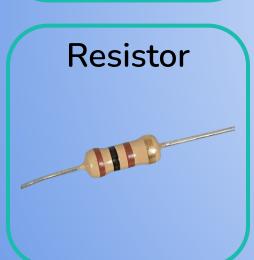
Relay







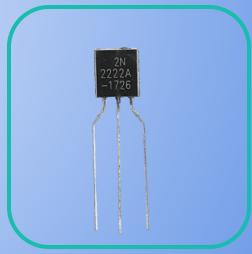


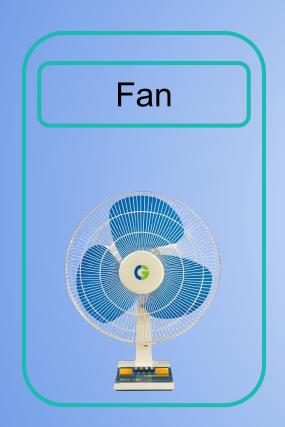








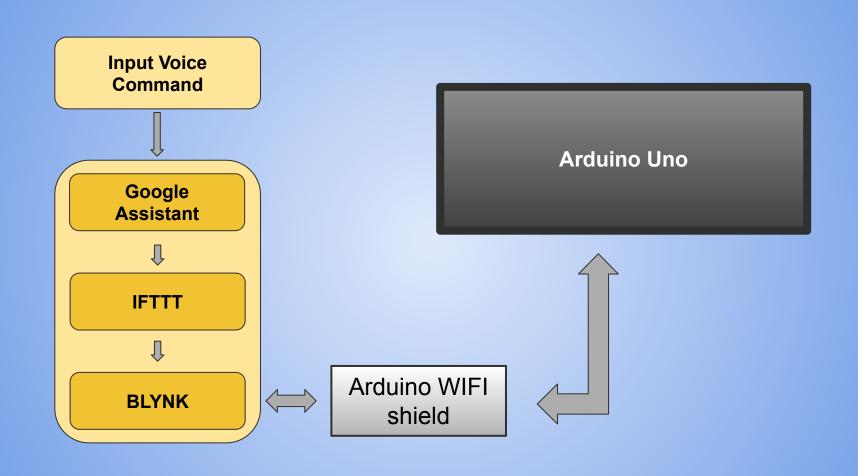








# Voice controlled Home Automation using Google Assistant, IFTTT and Blynk



# Home Automation using Blynk App

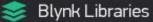


Blynk app 🔘







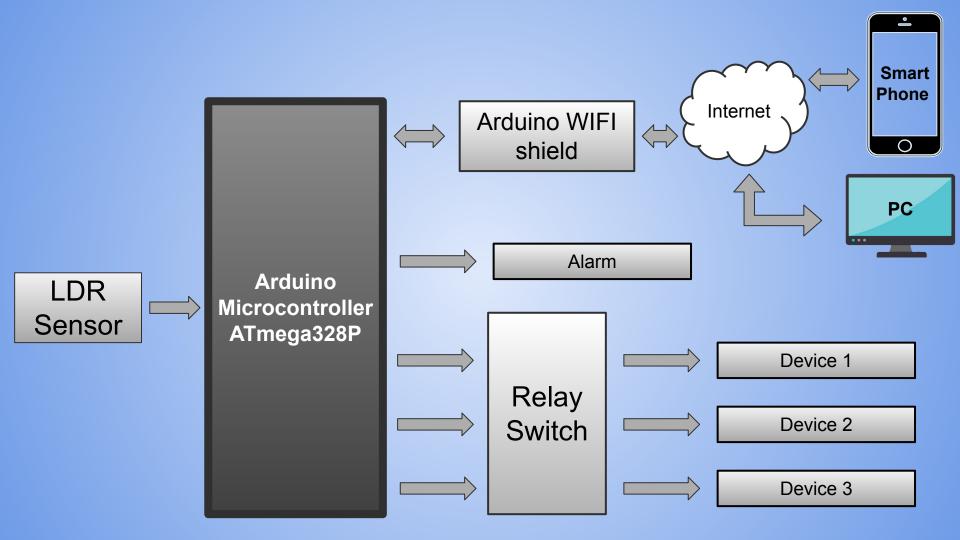


Internet Access of your choice Ethernet, Wi-Fi, 3G ...

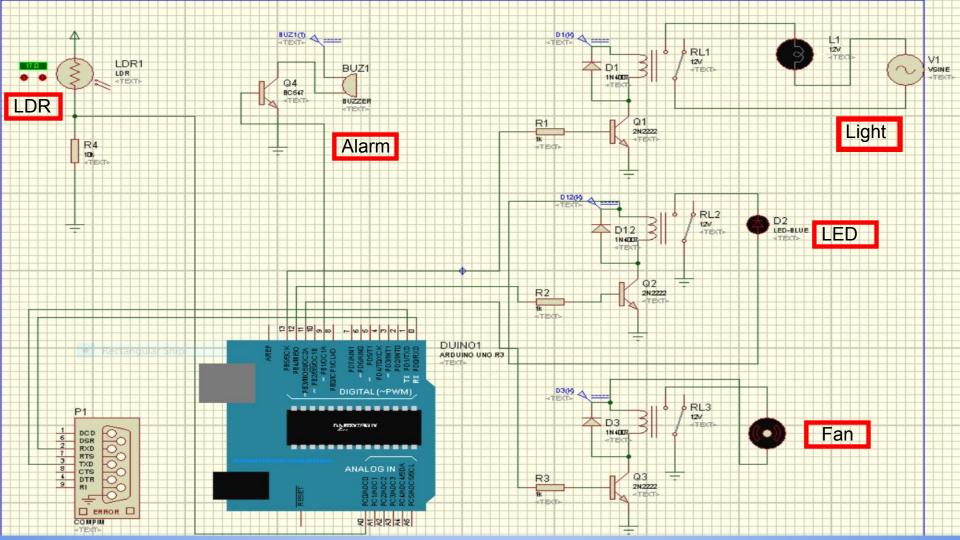




### **Block Diagram**



#### Circuit Diagram



#### **Arduino Code**

#### **Arduino Code**

```
#include <BlynkSimpleStream.h>
int sensorPin = A0;
int ledPin = 9:
int sensorValue = 1;
char auth[] =
"SZN 5JK5GVRNDfFOVo4T0UmPRm X76Ar":
void setup()
 pinMode(ledPin, OUTPUT);
 Serial.begin(9600);
 Blynk.begin(auth, Serial);
 pinMode(11, OUTPUT);
 pinMode(12, OUTPUT);
 pinMode(13, OUTPUT);
```

```
BLYNK_WRITE(V1) //Button Widget is writing to pin V1
int pinData = param.asInt();
if(pinData==1){
 digitalWrite(11, HIGH);
}else{
 digitalWrite(11, LOW);
void loop()
sensorValue = analogRead(sensorPin);
// turn the ledPin on
if (sensorValue<=450)
 digitalWrite(ledPin, HIGH);
// stop the program for <sensorValue> milliseconds:
else
 digitalWrite(ledPin, LOW);
// stop the program for for <sensorValue> milliseconds:
Blynk.run();
```



- Control home appliances from anywhere in the world
- Easy to operate
- Android compatible smartphone app
- You will receive a email or sms for any activity
- Saves electricity



- Reliability
- System crashes due to any damage in the interconnection
- Costly

### CONCLUSION AND FUTURE WORKS

This project has introduced a home management system. Our prototypical system is applicable to real-time home security, automation, monitoring, and controlling of remote systems.

This implementation provides an intelligent, comfortable, and energy-efficient home automation system. It also assists the old and differently abled persons to control the appliances in their home in a better and easier way.