**Mr GREEN HOME ASSISTANT**

The aim of this project is to design a home assistant called Mr Green using Arduino. To build the project, our required components are,

* Arduino UNO
* Bluetooth module
* Servo motor
* Common cathode led

**Introduction:**

Mr Green Home Assistant is a free and open-source software for home automation that is designed to be the central control system for smart home devices with focus on local control and privacy. It can be accessed via a Bluetooth - based user interface, via companion apps for Android and iOS. IoT technologies, devices, software, applications and services are supported by modular integration components, which not only include native integrations for local connectivity protocols like Bluetooth, MQTT, Zigbee and Z-Wave, but also support for controlling proprietary ecosystems if they provide public access via an Open API for third-party integrations. After the Home Assistant software application is installed as a computer appliance it will acts as a central control system for home automation (commonly referred to as a smart home "hub", "bridge", "gateway", "controller", or "coordinator").

Information from all entities it sees can be used and controlled from within scripts trigger automations using scheduling and "blueprint" subroutines.

**Working:**

Mr Green is actually a robot that is invented by aspire technologies, to perform automated, repetitive and pre-defined tasks. Mr Green typically imitates or replaces human user behaviour. This smart assistant allows you to open/close the front door with a door password. It also allows you to turn on/off your room light and if you really want, you can change the colour of the light as well! All you have to do is, connect to Mr Green from your smart phone and send a “hi” to it. Rest will be take care by Mr Green!!