**Project Name: *Smart Home – IoT Solution***

**Description**

***Problem:*** *Energy is mostly wasted at homes, offices and laboratories. As humans, we may not be able to manage energy efficiently due to forgetfulness,also we may wish to regulate people who have access to our lighting or appliances at home, and we wish we could switch on/off our lighting systems, appliances and other devices away from home.*

***Solution:*** Smart Home will allow users to control their lighting system, appliances and other devices. Certain environmental readings such as *temperature and humidity* can be observed from the web app which may be useful in laboratories. Also a user can automate all devices or appliances connected to the system, to go ON/OFF at certain times or days.

***Hardware Resources:***Raspberry Pi 3, Infrared sensor (Receiver & Emission),Relay Connector, Temperature & Humidity Sensor (DHT11), Switch, Bulb, Copper wire

***Software Resources:*** *ActiveMQ or* Mqqt Protocol (Mosquito Broker), Heroku, Python3, Django, Angular, LAMP Server

**Members:**

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