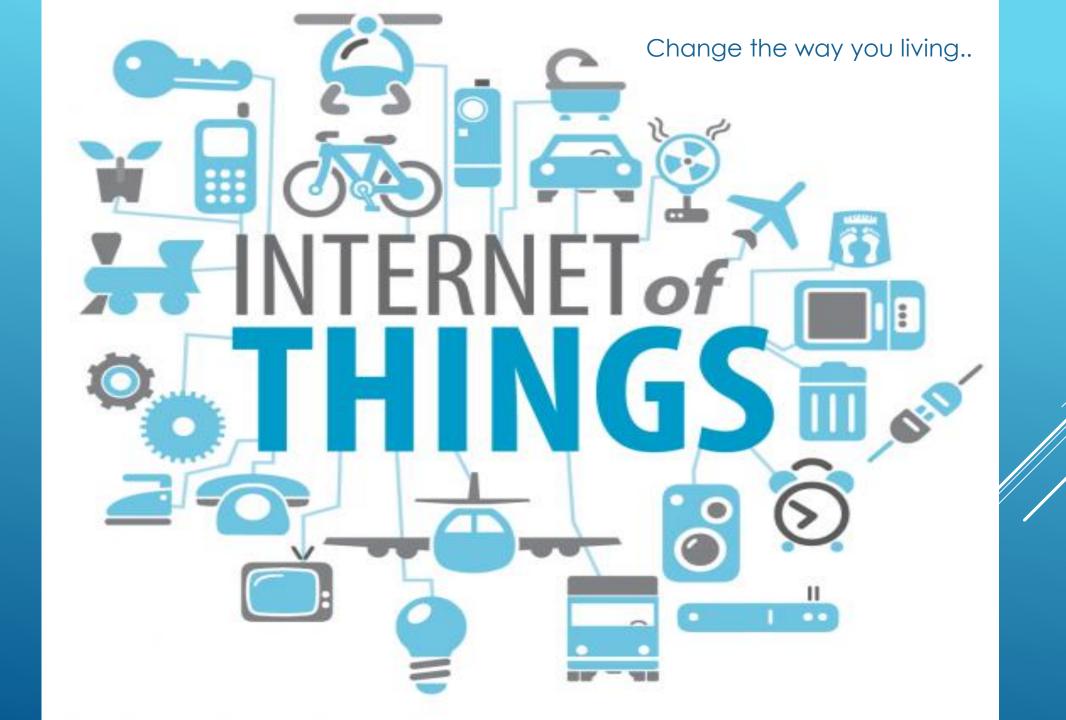
IOT HUB CONNECTED TO A CLOUD (FRONT END)

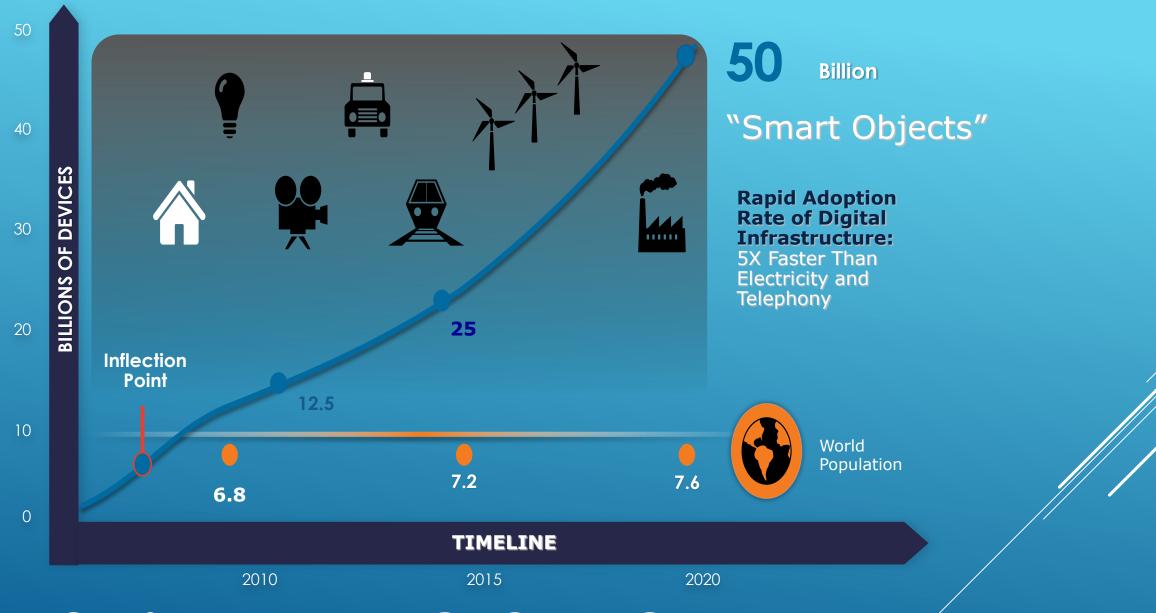
Project Group 16

E/12/162

E/12/302

E/12/376

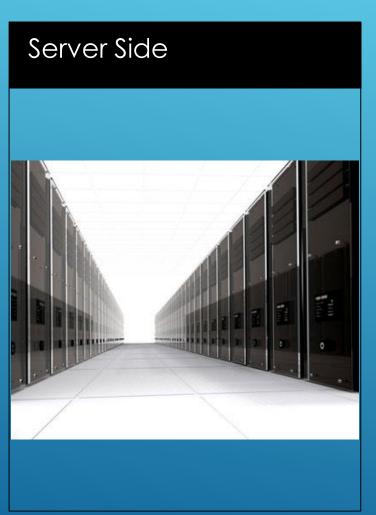




IOT IS HERE AND GROWING ...

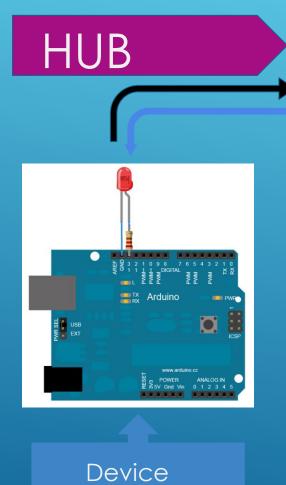
BIG PICTURE







BIG PICTURE (BASIC DIAGRAM)









OBJECTIVES

- Make an lot Hub which is modularized as far as possible.
- Each component can be work independently
- Able to replace with modified model without disturbing other components
- ▶ Able to communicate through Wi-Fi, Ethernet, USB, Bluetooth
- Which support standard discovery protocol such as upnp,

zigbee.



Establishing MQTT
Protocol to
Communication

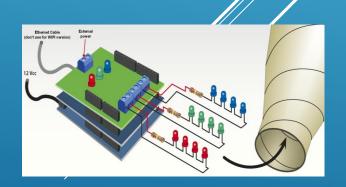
Initiating the communication With any Backend

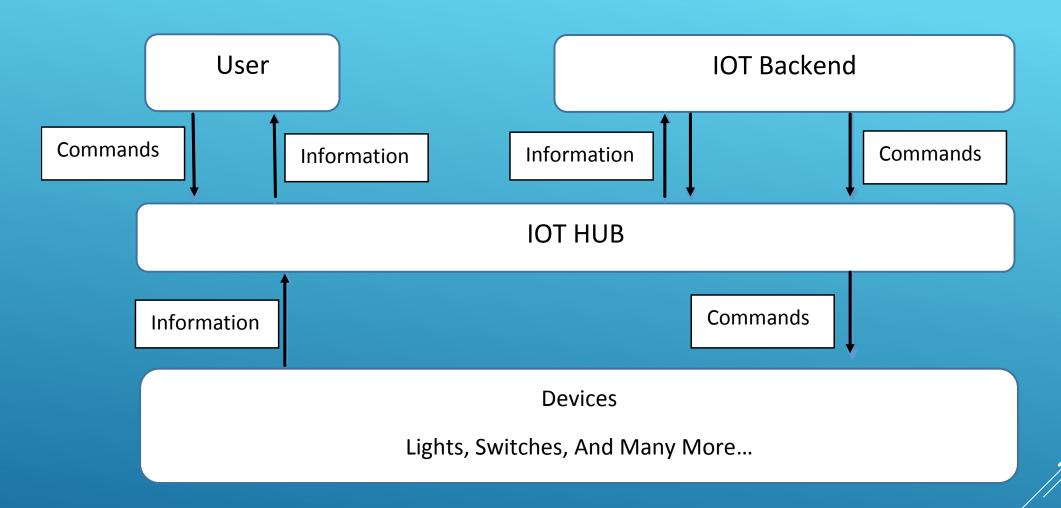
Finalization Of the Project





WHAT WE HAVE DONE IN SECOND ITERATION (IOT HUB)

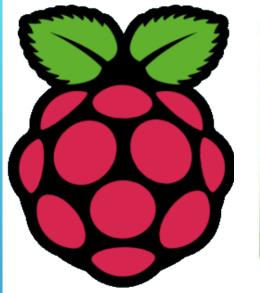




ARCHITECTURE

RESOURCES

- Raspberry Pi 2
- > Arduino
- ▶ Wi-Fi Shield
- > Ethernet Shield









TECHNOLOGIES AND TECHNIQUES

- > Arduino IDE
- > Python
- > Android Studio
- Raspbian OS
- > cloudMQTT for testing as the Backend when developing the HUB
- Used testing tools like Postman
- Wi- Fi , Ethernet ,Bluetooth



IMPLEMENTATION...

Q & A