



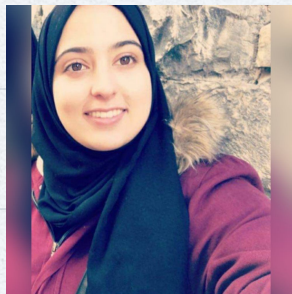
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# COOL SCHOOL

Through thorns into the sky

# MEET OUR TEAM!



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# PROBLEM

**Attendance registration for students and teachers is a cumbersome and time-consuming process**

**Emergency systems are not available in all schools and do not support all emergencies such as fire, gas leakage, smoke and others**

**The school systems's control of the school system is difficult, needs mobility and does not benefit from the technological development currently available**

# PROBLEM

**Wasting school resources such as electricity,  
water, etc**

**Teachers are responsible to keep students  
safe**

**Parents worry about their children because  
of the environment around them at school**

# WHAT IS ROLE MAJOR ?







# IOT (INTERNET OF THINGS)

The Internet of Things, or IoT, refers to the billions of physical devices around the world that are now connected to the internet, all collecting and sharing data.

# Main Features

**Fingerprint Registration System**

**RFID Registration System**

**Emergency Alarm System**

**Heating and Cooling System**

# Another Features

**Auto and manually modes  
For cooling and heating**

**Water level detection**

**Web Application**

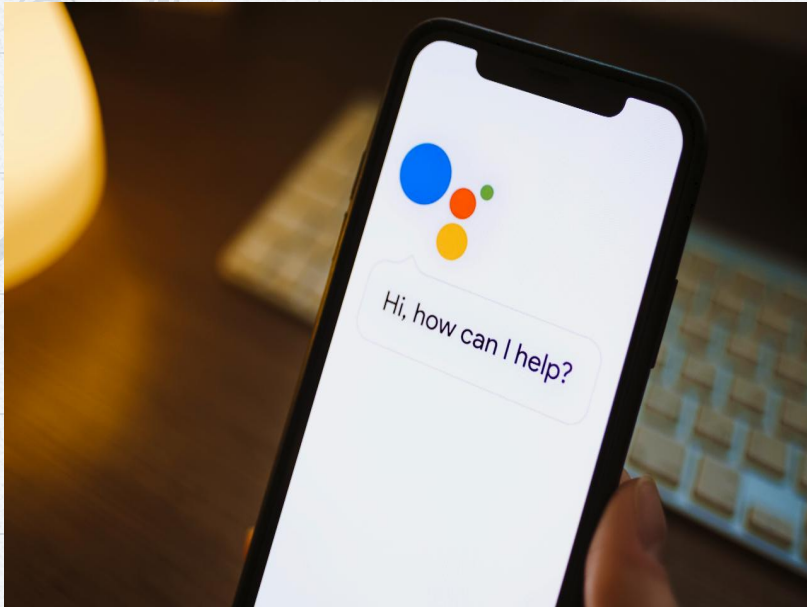
**Controlled with google  
assistant**

# Main Components

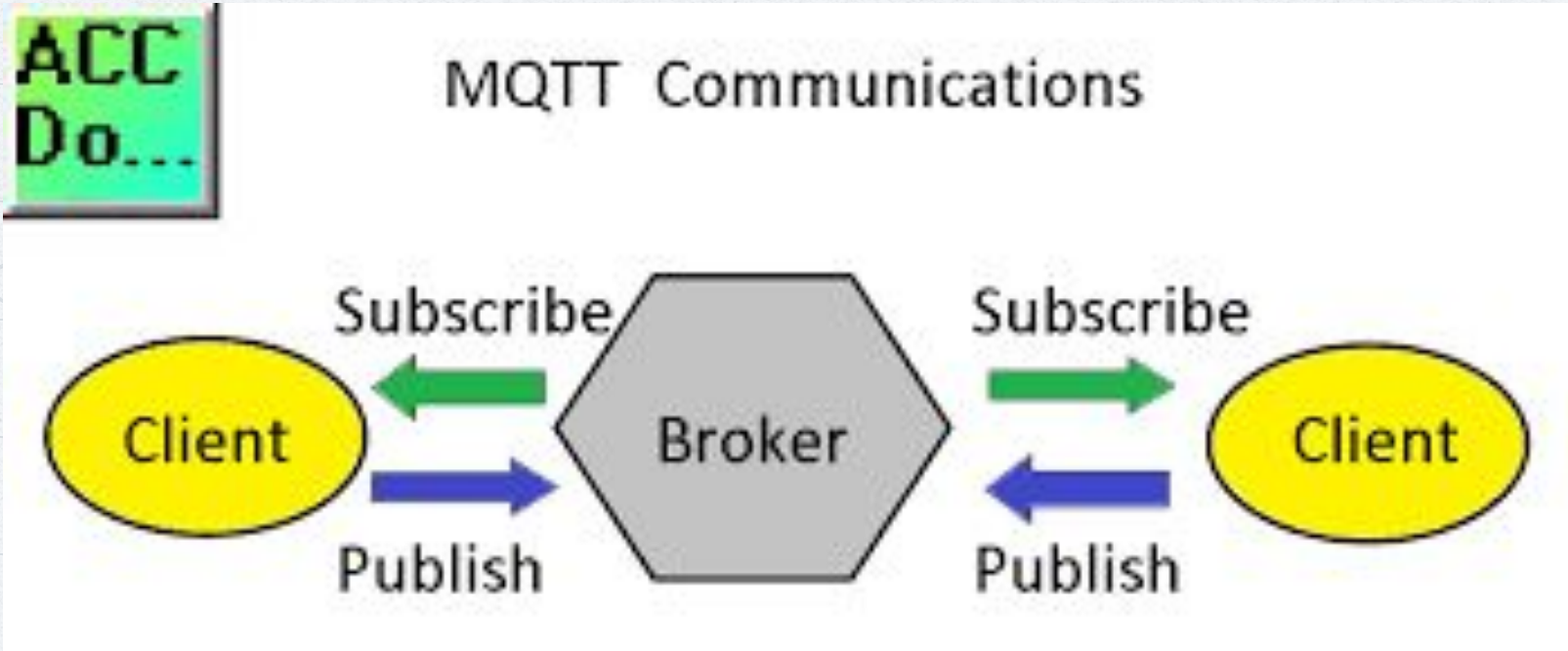
**Water sensor**  
**Flame sensor**  
**Gas and smoke sensor**  
**Temperature sensor**  
**Leds**  
**Dc Motor**  
**Servo motors**  
**Node Mcu**

**Arduino Uno**  
**LCD Screen**  
**Finger Print**  
**RFID Reader**  
**RFID Cards**  
**CardBoard**  
**Cut-CNC board**  
**Scalable design components**

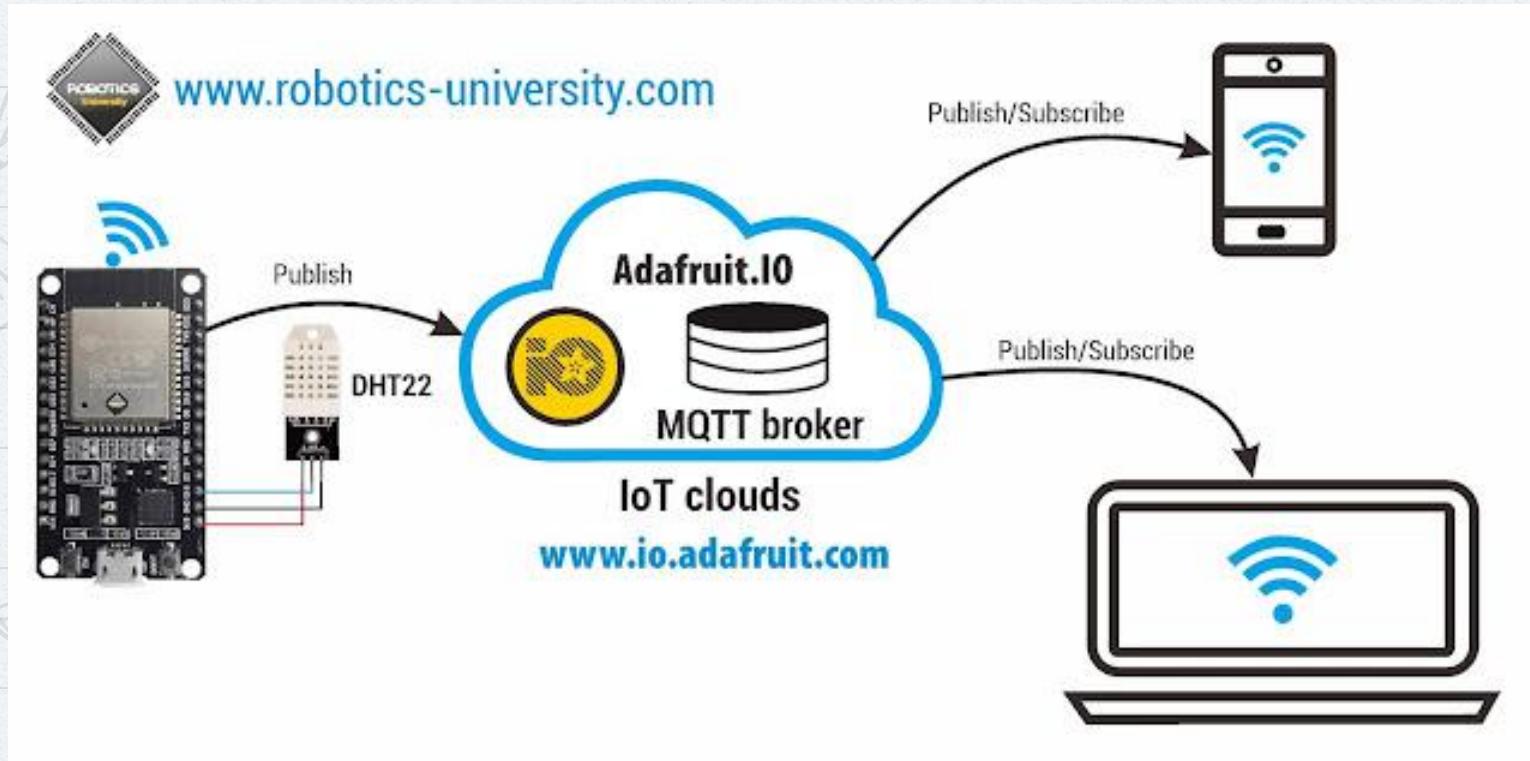
# GOOGLE ASSISTANT WITH ADAFRUIT IO



# MQTT PROTOCOL



# ADAFRUIT AS MQTT BROKER





applet

**IF**

**T**

**T**

**T**

IF

THIS

THEN

THAT

IF room temperature drops below 17 °C

IF I leave home

IF humidity changes

THEN

THEN

THEN

send me a message or e-mail

switch my Hue lights off

lock to a Google spreadsheet

trigger

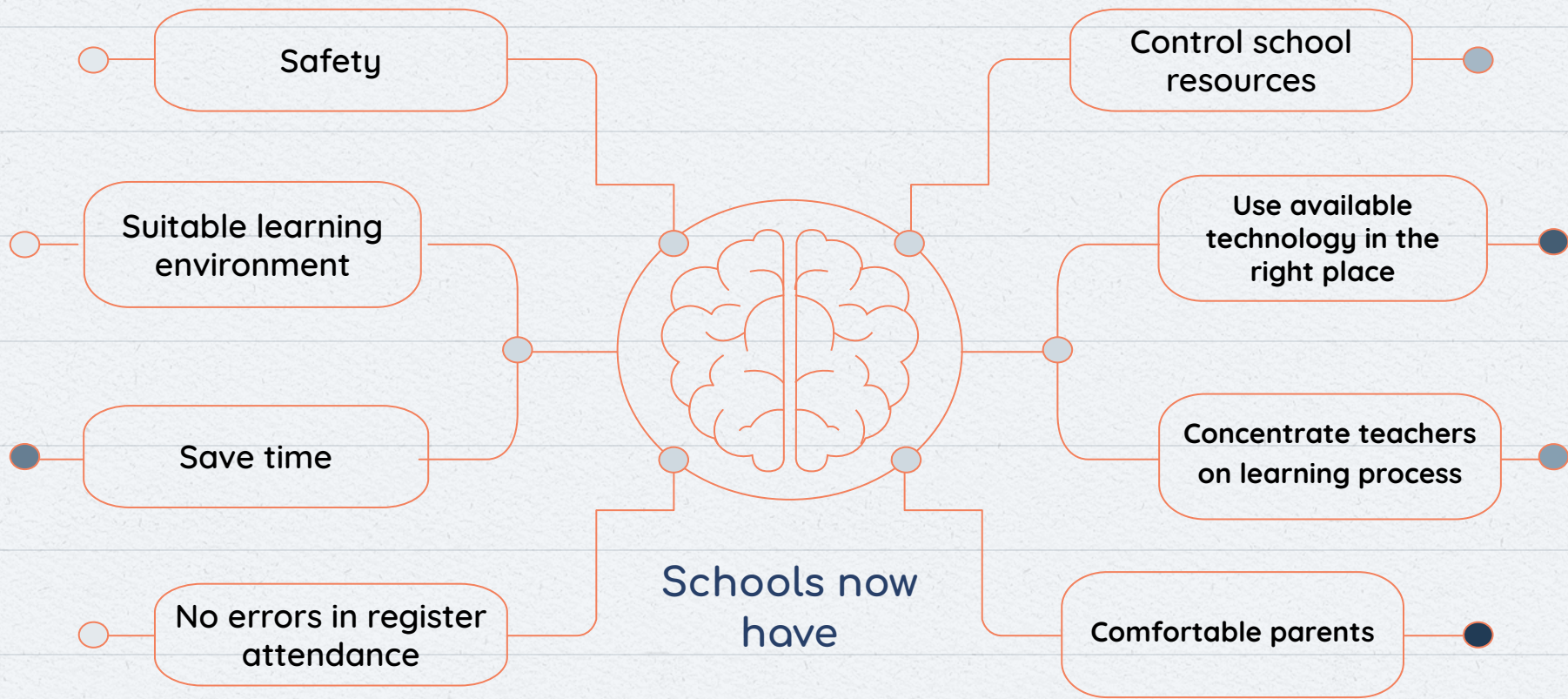
action

# ALL SERVICES

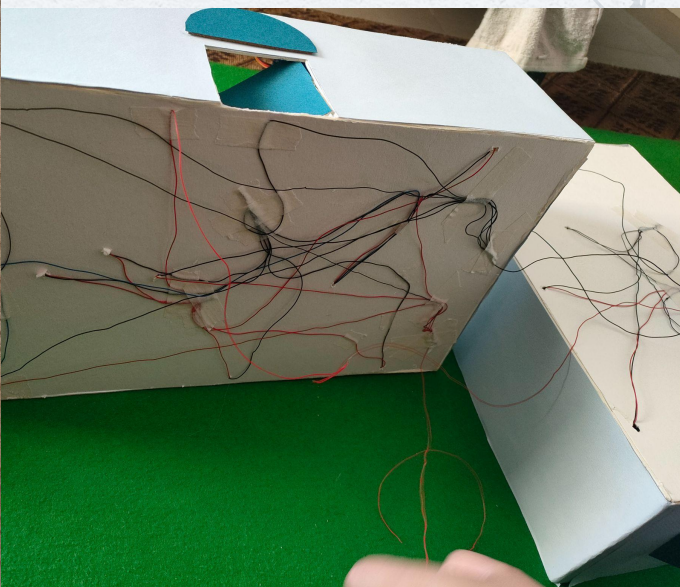




# OUTCOMES







Thank you.  
Very much!

