# Interfacing with STM32 with components:

1. Temperature sensor : we need to connect it with analog pin
2. Battery (9V): we need to divide the voltage as it cannot be directly fed to the board and may damage it, use resistors for that.
3. LED’s: Only thing which necessary to be considered in case of LED’s is to calculate the resistors and also take its voltage and current characteristics.

Note: Consider the datasheets of each components as ultimate guide.

# Interfacing ESP8266 with the STM32:

1. Use UART to send/receive data with each other.
2. STM32 will send the temperature and voltage rating.
3. ESP8266 will send the instruction to turn ON/OFF LED.

# Communication of ESP8266 with web server:

1. A web page should display temperature and voltage data received from ESP8266.
2. It should contain LED buttons to turn ON/OFF LEDs.