# Requirements

MoSCoW – Must have (M), should have (S), could have (C) and will not have (W)

RQ1 - ESP 32 must react to the changes made by the user **(M)**

RQ2 - Display the brightness and the colours of the LEDs correctly **(M)**

RQ3 - Perform defined output when trigger is met. **(M)** The triggers are:

RQ3.1 - Time **(S)**

RQ3.2 - Weather **(C)**

RQ3.3 - Temperature **(C)**

RQ3.4 - Button **(C)**

RQ3.5 - Sensor **(C)**

RQ4 - Will have 2-3 pre-set standard and addressable profiles for fire, constant and strobe**(W)**

RQ5 - Play MP3 file when trigger is met **(W)**

RQ6 - Will have some sort of storage like an SD card to store the MP3 audio **(W)**

RQ7 - The ESP must be easy to set up **(M)**

RQ8 - Create a user-friendly website.**(M)**

RQ9 - Easy to use and navigate **(S)**

RQ10 - Define the ‘trigger’ for the outputs implemented. **(S)**

RQ11 - Create LED standard profiles (Standard LED profiles are the brightness that must be displayed to the user e.g. PWM) **(M)**

RQ12 - Set the standard LED profiles to the LEDs **(M)**

RQ13 - Create Assignable LED profiles (Same as the standard profiles however you can set the colour of the LED) **(M)**

RQ14 - Set the assignable LED profiles to the assignable LEDs (needs specific assignable LEDs) **(M)**

RQ15 - Define the intended motor and servo config **(C)**

RQ16 - Upload small MP3 file to play when defined by trigger **(W)**

RQ117 - Will also have a profile for the servos and motors outputs **(C)**