**Firebase Json structure**

Updated fields by color:

Android Team || IOT Team || Joint

Gardens

garden\_1

global\_info

 (all the values are normalized 0-100)

Int garden\_temprature (values in Celsius)

Int garden\_humidity

Int garden\_light\_strength

Int water\_level

bool lid\_open (both manual & automatic mode)

bool leds\_on (manual mode)

bool pump\_water (manual)

bool manual\_mode

bool needs\_direct\_sun

int/enum plants\_num

string timestamp\_handshake

…

plants

plant1

bool plant\_calibrated

enum soil\_moisture\_level (1 – low / 2 – mid / 3 - high)   0-default

bool needs\_direct\_sun

int moisture\_sensor

String irrigation\_time  (last irrigation timestamp)

bool pump\_water (manual)

calibration

bool moisture\_calibration\_mode

bool moisture\_calibration\_dry

int dry\_soil\_measurment

bool moisture\_calibration\_wet

int wet\_soil\_measurment

Int calibration\_timeout (0 – no timeout, 1 – timeout)

(esp writes 1 in case of timeout, app writes 0 for next calibration cycle)

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plant 2

…

garden\_id2

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