<Logical Database Requirements>

Garden {garden\_id, name, address\_line1, address\_line2, city, region, postal\_code, country\_id}

Gardener {gardener\_id, garden\_id, first\_name, last\_name, password, address\_line1, address\_line2, city, region, postal\_code, country\_id, email, phone\_number}

Drone data {drone\_id, garden\_id, date, pad\_id, pad\_x\_coordinate, pad\_y\_coordinate, pad\_z\_coordinate, vgx, vgy, vgz, pitch, roll, yaw, lowest\_temp, highest\_temp, tof, h, bat, baro, motor\_time, agx, agy, agz, image, video, model, made\_year}

Pad {pad\_id, garden\_id, drone\_id, pad\_x\_coordinate, pad\_y\_coordinate, pad\_z\_coordinate, model, made\_year}

WIFI {WIFI id, garden\_id, ssid, pass}

Plant {plant\_id, garden\_id, drone\_id, date, plant\_image, pad\_id, pad\_x\_coordinate, pad\_y\_coordinate, pad\_z\_coordinate, tof, h, lowest\_temp, highest\_temp, plant\_type, disease\_detect}

\_\_\_(underline): PK

garden\_id is a FK references Garden (garden\_id)

drone\_id is a FK references Drone data (drone\_id)

#pad\_id is not a FK references Garden (pad\_id) : X <- there’s a chance drone have pad\_id value ‘0’

tof: the time of flight distance in cm

motor\_time: the amount of time the motor has been used.

ssid: updated Wi-Fi name

pass: updated Wi-Fi password

plant\_type: result of the ML algorithm. ex) “Rose”, “Orchid”

disease\_detect: result of the ML algorithm. ex) “Yes” or ”No”