**The 24/7 Gardener.**

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# Proposal

This project is an application of green technologies for sustainable living. An indoor garden will be created, where plants (Snake Plant, Peace Lilly and Spider) will help clean and recycle the air. The technological solution will measure the oxygen and carbon dioxide levels in the air, and display this using an android application. Building on this idea, other fruit and vegetables will be grown with the aid of robots to assist with irrigation by using thresholds for dryness and wetness.

An native Android app will be built to monitor the garden

An analysis of green technologies based on IOT solutions will be carried to identify potential solutions and features for my project. These include:

1. The Raspberry Pi Powered Garden. \*\*\*\*
2. The Automated Garden System Built Of Raspberry PI For Outdoors or Indoors. \*\*\*\*
3. Smart Home Gardening System Using Raspberry Pi. \*\*\*\*

# Technologies

## Hardware Requirements

1. a main mother board e.g. (Rasberry Pi, Arduino)
2. sensors (light sensor, soil/moisture sensor, CO2 sensor)
3. water pump
4. LCD screen

## Software Requirements

1. Android Studio (Kotlin or Java)
2. Database (Firebase or MongoDB)

# Methodology (Process)