## A green sign with a plant in a pot Description automatically generated

**By continuously monitoring water quality, air temperature, relative humidity, and hydroponic solution level, the project aims to create an optimal environment for vegetable growth with supplementary LED lighting.**

**The device uses a NodeMCU ESP8266 and an ESP32 camera to gather sensor data and transmit images via Wi-Fi. This information, including images, is then forwarded to the cloud for storage and analysis.**

Enhanced Indoor Hydroponic Farming with IoT Technology: Utilising Computer Vision, Deep Learning, and a Flutter Mobile Application

A qr code on a green background

Description automatically generated