Smart Management System for Indoor Plant

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Due to weather-related constraints, taking care of Plants in an indoor environment is a challenging task. Several factors influence the growing process of Plants, including soil humidity, humidity, tempuras, and carbon monoxide. In this project, we propose an IoT-based smart management system for indoor Plants. The proposed system gathers several types of information related to the Plants surrounding to determine the right action to ensure the smoothness of the Plants growing journey. Based on the Plants surrounding environment conditions (humidity, temperature, and CO level), system reaction may include starting the cooling system, light, water pump, and music. To evaluate the efficiency of the proposed system, we have designed and deployed a prototype of the proposed system. The performance of deployed prototype was monitored for a 16-days period. The results have shown that the proposed system is able to maintain the Plants surrounding environment-monitored factors within the expected range.

Awards Won: