A Project Abstract

on

INDOOR PLANT MONITORING SYSTEM USING IOT

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in

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ABSTRACT

Nowadays, a lot of individuals are quite interested in doing their own gardening. Indoor gardening has a variety of advantages, including the ability to produce organic vegetables, use of the plants in home design, and air purification. People's busy schedule is the major obstacle to indoor gardening, because plants require more attention for their growth and health, also the plants need to be protected from the damage caused by some animals and birds, necessitating the hiring of a "plant sitter" if they leave on vacation. This problem can be solved by automating the plant monitoring using the "Internet of Things". Automated gardening systems have revolutionized the way we grow plants indoors, making it easier than ever to cultivate a thriving garden. These systems ensure optimal conditions for the plants to flourish. Utilising Raspberry pi and variety of environmental sensors to track the temperature, moisture and light. Installing a camera to monitor the actions of animalia in case of detection, a buzzer sound is made and servo motors to provide shade for plants and a water pump to provide water which is controlled using relay. Raspberry pi acts as the main controlling unit that can control the operation of various sensors and camera and providing data on each of these elements via Blynk app.

Keywords

Indoor Planting, Plant Sitter, Raspberry Pi, Camera, Relay, Animalia, Blynk App.

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