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ABSTRACT

The advancement of Internet of Things (IoT) technology has spurred innovation in household automation, particularly within smart home systems. One such application addresses challenges in the clothes drying process, which is often disrupted by unpredictable weather conditions such as sudden rain or fluctuating light intensity. This study develops a prototype of an IoT-based automatic control and monitoring system for clothes drying, utilizing a light-dependent resistor (LDR) and a rain sensor to monitor environmental conditions in real-time. The system is designed to automatically retract the drying rack when the rain sensor detects a dryness level below 70%, indicating the presence of water. Conversely, if the LDR indicates sufficient light and the rain sensor detects a dryness level of 70% or higher, the system will extend the drying rack to resume the drying process. Additionally, integration with the Blynk platform allows users to remotely monitor the system's status through a mobile application, enhancing convenience and responsiveness.

Keywords: *Internet of Things, Automatic Clothes Drying, Rain Sensor, LDR, Blynk, Smart Home.*