

A Smart Lawn Sprinkler Automatic System

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Abstract: *Smart lawn sprinkler automatic system is a mini-project aimed at developing an intelligent irrigation solution that automates lawn watering based on real-time environmental conditions and soil moisture levels. The system uses soil moisture sensors to continuously monitor moisture content in the ground and a microcontroller to process these readings. When the moisture falls below a predetermined threshold, the system automatically activates the sprinkler via a relay or actuator, ensuring the lawn receives water only when necessary. This automation eliminates the need for manual watering, reduces water wastage, and improves lawn health and maintenance efficiency solution that automates lawn watering based on real-time environmental conditions and soil moisture.*

Keywords: Arduino IDE, ESP8266, IoT

