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An Automatic Plant Watering System Using NodeMcu ESP8266 and Blynk

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Abstract: *The key objective is to screen the soil dampness substance amid its dry and damp conditions with the help of a dampness sensor ,an computerized water gulf setup which can too screen and record temperature, mugginess etc. It controls the water system of Plants consequently where the require for human intercession can be diminished. As water supply is getting to be rare in today's world there's an criticalness of embracing keen ways of water system The extend portrays how water system can be dealt with intelligently utilizing IOT. This extend points to spare time and maintaining a strategic distance from issues like consistent carefulness. It too makes a difference in moderating water consequently giving water to the plants/fields depending on the water necessities this framework can moreover demonstrate to be accommodating in rural parks and gardens. The objective framework is to identify the dampness substance of the soil and depending upon its sprinkling of water. This whole data will be sent to the user's versatile phone. The shrewd water system framework was created to optimize water utilize of crops.*

Keywords: ESP32, IoT, automated irrigation, smart agriculture, soil moisture sensor, Blynk app, water conservation, wireless monitoring, precision farming, embedded system, real-time data, cloud-based control, mobile-based automation, environmental sensing, microcontroller-based system

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