ABSTRACT

In the midst of awareness of the importance of hygiene, especially in maintaining hand health, the latest technological breakthroughs have presented new solutions. The hand sanitizer automatic control system, which combines the Internet of Things (IoT) with the Blynk platform, is the answer to the need for efficient and controlled use of hand sanitizer. The system is designed by utilizing sensitive motion sensors, which quickly and accurately detect the presence of individuals around the sanitizing area. Once a person approaches, hand sanitizer dispensing is automatically initiated without the need for physical contact. The integrated capacitive sensor allows monitoring of the available hand sanitizer level, providing smart notifications via the Blynk app when refills are required.

Through an elegant and friendly user interface, the Blynk app makes it easy to monitor the status of the hand sanitizer in real-time. Users can also receive informative notifications regarding dispenser condition and refill needs. In addition, the remote control feature gives users the flexibility to easily manage hand sanitizer dispensing through the app, ensuring optimal availability at all ti/mes.

With a focus on leading-edge technology in IoT and a stable connection with Blynk, this system not only improves the efficiency of hand sanitizer use, but also creates a more hygienic and safe environment. This innovation is not only a practical solution, but also a real step in raising awareness of the importance of hand hygiene in this modern era.

Keywords: **Automatic Control, Hand Sanitizier, Internet of Things, Blynk App, Motion Sensor, Efficiency**