

Abstract— Kutoarjo Health Center still uses conventional methods to observing the volume of infusion liquids. Observing by going around one by one to the patient's room. The goal of this investigate is to design and analyze an Internet of Things-based infusion liquid volume observing system. Using the ESP8266 module which is integrated with the Web and alarms. If the infusion liquid volume is below 50 mL, an alarm will sound and the Web will display a “Dangerous” status. Analyzing the usefulness of the infusion liquid volume observing system using the System Usability Scale method. The infusion observing system got a score of 54.3 which indicates that the system has not been able to improve the quality of public services. The low value of the usefulness of the infusion liquid volume observing system is because this system is a new innovation that previously the Kutoarjo Health Center had never used it, so users need to adapt in using this system. although it has a fairly low value, the infusion liquid volume observing system is running properly. We need to make a manual and hold a Technical Guidance/Workshop so that users can better understand and adapt quickly in using this system.

Keywords— *Internet of Things, ESP8266, SUS, Notification*