

Abstract

After the COVID-19 pandemic, tourist destinations have become a sought-after place for everyone. Kenari Djaja, in collaboration with the Indonesian Toilet Association (ATI), stated that Indonesia's tourism sector before the pandemic was a promising and crucial sector for the Indonesian people. Therefore, there is a need for facility enhancement, particularly in terms of sanitation. Sanitation facilities at tourist spots often get neglected and are very unclean when used. Apart from cleanliness issues, these facilities sometimes consume a significant amount of resources. Based on the above-mentioned problems, there is a method to prevent this by creating a smart toilet system. This system would provide information about toilet usage, water consumption volume, and notifications to clean the toilet after use. The effectiveness of this system was tested using a confusion matrix to measure its accuracy and efficiency. The results obtained indicate that the system works well in delivering notifications to clean the toilet when needed.

Key Word: Smart toilet, smart environment, Waterflow