ABSTRACT

Bojongsoang Village is a village in the Bojongsoang Sub-district area that has a population of around 24,524 people. However, Bojongsoang village has challenges in effective and sustainable plastic bottle waste management. The purpose of doing this research is to build an application to increase community participation in plastic bottle waste management, while encouraging awareness of the importance of protecting the environment by utilizing economic circular, CLEIN an application built by using the Flutter and Flask Framework. This research can show an increase in the amount of community participation directly by utilizing plastic bottle waste savings recorded through the CLEIN information system. This research shows that the application of information technology in waste management can make a significant contribution to efforts to keep the environment clean and increase public awareness of the importance of recycling. This shows that the application of information technology in waste management can be an effective solution to address environmental problems in the local environment.

Keywords: Waste Savings, Mobile Application, Internet of Things, Flutter Framework