

ABSTRACT

Bojongsoang Village, Bojongsoang Sub-district, Bandung Regency, West Java, faces challenges in its waste management system, especially plastic bottle waste. The waste management process is still manual, causing waste accumulation and negative impacts on the environment. To overcome this, system analysis and design are required. The proposed solution is the implementation of smart waste bins based on the Internet of Things and mobile applications, with socialisation of use. The product development method used is Scrum, to ensure smooth development of the project. The project objective is to identify system requirements and ensure smooth development of the project with the Scrum method. Site surveys and interviews were conducted to understand the needs of the community. The problem limitations include focusing on analysing and designing the system to overcome the accumulation of plastic bottle waste and applying the Scrum method in project development.

Keywords : Plastic Bottle Waste, Management System, Scrum.