ABSTRACT

Waste is a serious problem in Indonesia. Waste management is currently done in conventional and modern ways. The conventional way is throw the waste from the people to TPA or landfills, while in the modern way is to use waste management or can be called the business of waste bank. Waste Bank is an organization engaged in the field of waste management business. The activities performed by waste banks differ from conventional methods, namely waste sorting process, and waste deposit. Problems encountered in the waste bank business is administrative data is not neat, duplication or data loss occurs, customers can not access the waste balance information, people do not know the information about the location of waste bank.

To solve that problem required an application system that can help the administration and business of waste bank. Startup Sampahguna comes with developing website-based application products and mobile platforms. To integrate such platforms, web services are required to exchange information and help administrative processes run smoothly and accurately. The application product developed by iterative incremental method, that is based on software requirement needed in waste bank. The result of this research is website application for waste bank admin and end point of web service which is ready to used by client. In waste bank apps consist of account management modules, manage profile data, manage junk data, manage customer data, manage transaction data, manage garbage deposit schedules, and dashboard waste bank information statistics. While for the user application consists of modules manage account data, manage profile data, garbage portal and garbage bank portal. One of the advantages or value preposition of the startup Sampahguna is waste portal and manage the transaction schedule feature.

Keywords: waste, application, Sampahguna, website, web service