ABSTRACT

Pustaka 1000 Lentera is a literacy community that provides online-based library services, such as borrowing, extending the return date, returning, and donating books. The service can be accessed using social media Instagram and WhatsApp. Currently, the community is experiencing difficulties in managing the data collection of books and services. Based on these problems, this Final Project was prepared with the aim of designing a Management Information System (MIS) that can help facilitate the Pustaka 1000 Lentera library in managing data and its services.

SIM design is done using the Waterfall model. In this design process, stakeholder analysis, business processes, functional requirements of the system to be designed are carried out. Next, two designs are carried out, namely the design of the proposed new business process and the design of the system. Business process design is a follow-up to service design, namely Titip Katalog, along with the process flow for the service. Then the system design is carried out by determining system specifications, features, and making system documentation with Unified Modeling Language (UML). SIM is made in the form of a website that can be used by admins and library members. System testing is done by Blackbox testing and User Acceptance Testing to test system functionality and system suitability with stakeholder needs.

The result of this final project is a system that can help manage the catalog of books and services from Pustaka 1000 Lentera. Based on the results of the system testing carried out, it was found that the system was able to run according to its function and fulfill the needs expected by stakeholders.

The conclusion of this final project results in a system in the 1000 Lentera Pustaka community that can facilitate 1000 Lentera Pustaka in managing the data collection of books and the services it provides. This system is expected to continue to be developed, especially in terms of features and visuals.

Keyword **— *Library Service, Management Information System, Waterfall Model***