ABSTRACT

The Inventory of medicines and medical equipment is crucial for the operational activities of patient care in hospitals. However, in its implementation, Bhayangkara TK.II Sartika Asih Bandung Hospital still faces challenges in Planning the procurement of drug stocks. Even though the Planning process for purchasing drug stocks and medical equipment is supported by an application, the drug ordering process still relies on Excel for record-keeping. This is because the TRANSMEDIK application does not fully support the drug and medical equipment ordering process. Furthermore, the drug ordering process is not well-scheduled due to the lack of a notification system for drugs that are running low or out of stock entirely. This research addresses this issue by developing an alternative solution. The solution is a web-based information system designed to facilitate the Planning of drug stock purchases, calculate drug stocks using forecasting, and provide notifications for drugs and medical equipment that are running low or out of stock. The application is designed using the Iterative Incremental SDLC method. The research process involves two iterations in development and testing, with the Pharmacy and Installation divisions as respondents. The results of testing the application using User Acceptance Testing and Blackbox Testing show that the features of the application perform well as expected. The User Acceptance Testing results indicate that the application is well-received by Users, demonstrating a high level of satisfaction, and meeting their needs for Planning drug stock and medical equipment purchases. This research demonstrates that the use of the Iterative Incremental method in developing this application can produce a product that satisfies Users.

Keywords — Inventory Management, Web Application, Forecasting, Iterative Incremental