

**WEBSITE-BASED APPLICATION DESIGN AND DEVELOPMENT FOR
MEDICINE DATA MANAGEMENT AT DOKO COMMUNITY HEALTH
CENTER USING THE WATERFALL METHOD**

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ABSTRACT

Doko Community Health Center in Blitar Regency still uses manual recording in managing medicine data, resulting in problems such as inaccurate stock data, delays in reporting, and the risk of data loss. This study aims to design and develop a website-based application that can assist the process of recording and managing medicines more effectively and efficiently. The system development uses the Waterfall method, which includes the stages of requirements analysis, system design, implementation, testing, and maintenance. The application was developed using the Laravel framework and tested using the Black Box method with use case techniques and User Acceptance Testing (UAT). The Black Box testing results obtained a success rate of 99%, while the UAT results achieved a user satisfaction rate of 90%, indicating that the system is able to operate according to user requirements. In addition, the system can accelerate the recording process, provide expired medicine notifications, and generate medicine stock reports automatically. With this system, the medicine management process at Doko Community Health Center becomes more structured, accurate, and supports the work efficiency of pharmacists.

Keywords: *Website-Based Application, Medicine Data Management, Community Health Center, Laravel, Waterfall Method, Black Box Testing.*