

ABSTRACT

DESIGN AND DEVELOPMENT OF A WEBSITE BASED DOCTOR'S ELECTRONIC PRESCRIBING SYSTEM APPLICATION AT ASY-SYIFA CLINIC IN RANDUDONGKAL VILLAGE

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The rapid advancement of technology has permeated various aspects of human life, including its role in transforming the library world as a means of information dissemination. This sophisticated technological progress necessitates tools to build systems, one of which is the development of an electronic prescribing system by a web developer. Electronic prescribing is a method of transmitting drug prescriptions through a digital platform that connects doctors, electronic prescription devices, and pharmacists. This system is recommended for use in medical prescription practices in hospitals and clinics to reduce errors associated with manual prescription creation. However, not all healthcare services have implemented this system; for instance, the Asy-Syifa Clinic still uses a manual prescription process. The development of the electronic prescribing application for doctors is web-based and specifically designed for doctors and pharmacists at the Asy-Syifa Clinic in Randudongkal Village. The methodology applied in the development of this system is the Extreme Programming approach, a software development methodology that emphasizes sequential and iterative development. The system is built using the JavaScript programming language with the ReactJS framework for the frontend, ExpressJS for the backend, MySQL for the database, and Black box for system testing. The primary goal is to facilitate the use of this system for doctors and pharmacists, enabling them to utilize it easily and efficiently. Final testing of this website indicates that the overall system functions well, with all features from the dashboard page, patient data input page, to the prescription creation function operating as intended.

Keywords : *Asy-Syifa clinic, Black box, Electronic prescribing system, Website*