

***DESIGN OF A WEBSITE-BASED ADMINISTRATIVE INFORMATION
SYSTEM FOR LAYING CHICKEN FARMING USING THE WATERFALL
METHOD***

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ABSTRACT

Manual administration on laying hen farms can lead to errors in recording and delays in data processing. This problem occurs at Pak Hari Laying Hen Farm, necessitating a system capable of supporting more structured data management. This study aims develop a website-based administrative information system using the waterfall method, which includes requirements analysis, system design, implementation, integration and testing, operation and maintenance. The system was built using the Laravel framework with a MySQL database and covers employee management, cage management, egg production, sales, and reporting. Functional testing of system uses black box testing with equivalence partitioning technique and usability testing uses the system usability scale. The test result showed a 100% functional success rate for the system, indicating that all features functioned as required. The usability test, with an average SUS score of 77.5, feel into the acceptable category. These results demonstrate that the system is usable and can improve the efficiency of managing administrative data for laying hen farms.

Keywords: *administrative information system, laying hen farm, website, waterfall method, black box testing, system usability scale.*