Development Of A Website-Based Water Pressure And Distance Monitoring System In The Wonogiri PDAM Tank Using The Laravel Framework
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ABSTRACT

The development of technology has a significant impact that can be applied in various sectors, including air resource management. The water tank monitoring process at PDAM Wonogiri City is still done manually, resulting in wasted time, large resource usage, and potential human error. A website-based information system was developed to monitor distance and air pressure automatically and in real-time to improve monitoring efficiency and accuracy. The development stages include needs analysis, design, implementation, and testing. The Black Box method with use case testing techniques focuses on testing the actual flow of system use by users, which shows that all features have run according to their functions. Field trials were conducted with PDAM Wonogiri users. The results of User Acceptance Testing showed an average satisfaction level of 91.4%, which reflects that the system has met most of the needs and expectations of users so that it is feasible to be implemented operationally.

Key words: information system, website, water tank monitoring, PDAM, Black Box, User Acceptance Testing.