

ABSTRACT

DESIGNING A WEB-BASED LOAN SAVINGS INFORMATION SYSTEM USING THE WATERFALL METHOD AT PKPRI IN NGAWI REGENCY

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The abundance of information accessible via the internet proves that technology is developing rapidly and continues to bring innovations that help humans obtain information. Websites have become a tool used by various groups, including government agencies, educational institutions, health organizations, and businesses. One such institution is the Indonesian Civil Servants Cooperative Center (PKPRI), which serves as the parent cooperative for civil servants across Ngawi District and is located at Jl. Trunojoyo, Margomulyo, Ngawi Subdistrict, Ngawi District. In line with the times, PKPRI Ngawi District has been motivated to communicate information to the public more effectively through a web-based platform. This study aims to develop a web-based loan information system using the Waterfall software development method and a software modeling approach using the Unified Modeling Language (UML). The Waterfall method was chosen because it has systematic and structured stages, from requirement analysis, design, implementation, testing, to maintenance, making it suitable for projects with clearly defined requirements from the outset. System testing was conducted using the Blackbox method, which focuses on functional testing without examining the internal structure of the code. The result of this research is a web-based savings and loan information system capable of assisting the PKPRI of Ngawi Regency in managing member data, savings, and loans.

Keywords: *Information System, Savings and Loans, Website, Waterfall, UML, Blackbox Testing*