

ABSTRACT

IMPLEMENTATION OF A DIGITAL EMPLOYEE LEAVE MANAGEMENT SYSTEM BASED ON ANDROID IN THE “KEPO” ONLINE SECRETARIAL COURT APPLICATION FOR SUKOHARJO USING THE RAPID APPLICATION DEVELOPMENT (RAD)

The employee leave application process at the Class 1A District Court of Sukoharjo is still carried out manually using paper forms and handwritten records, often resulting in delays, data inaccuracies, and challenges in monitoring leave status in real time. To address these inefficiencies, a digital leave management system was developed in the form of an Android-based application using the Rapid Application Development (RAD) methodology, which enables fast, iterative development while actively involving users throughout the process. The system integrates a decision support feature utilizing the Technique for Order of Preference by Similarity to Ideal Solution (TOPSIS) method to prioritize leave requests based on criteria such as duration, urgency, and remaining leave quota. Testing results indicate that the system effectively supports multi-role authentication, accelerates the submission and approval processes, delivers real-time notifications, and automatically records leave history. Furthermore, the TOPSIS feature provides objective and real-time prioritization of leave requests. Despite its advantages, the system still has several limitations, including the lack of advanced validation, document upload functionality, visual ranking representations, and mechanisms for handling emergency conditions, which should be addressed in future development.

Keywords: Leave, Secretarial Management, Rapid Application Development (RAD), TOPSIS, KEPO, Firebase, Android, Application, Figma, Court.