

***User Interaction Analysis of the SIDAK Desa Digital Attendance System Using
the STLC Approach and Usability Testing***

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ABSTRACT

This study aims to analyze user interaction with the SIDAK Desa digital attendance system using the System Development Life Cycle (SDLC) approach and usability testing. Evaluation was conducted using usability metrics including task success, time on task, error rate, efficiency, and learnability to assess interaction quality and system effectiveness. Results indicate a 100% task success rate, demonstrating that the system is easy to use for users with basic to intermediate digital literacy. Variations in task completion time and learnability reflect differences in user adaptation, influenced by age and technological experience. The low error rate indicates that the system aligns well with user characteristics, although minor obstacles were found among certain users. MANOVA test results reveal significant differences among usability metrics simultaneously, confirming that user interaction is influenced by both system design and user characteristics. The SIDAK Desa system effectively improves work performance through increased speed, accuracy, and efficiency in attendance processes.

Keywords: *usability testing, user interaction, digital attendance system, work effectiveness*