

ABSTRACT

DEVELOPMENT OF ANDROID-BASED ATTENDANCE MANAGEMENT APPLICATION USING THE WATERFALL METHOD (CASE STUDY: PT. STUVA KREASI NUSANTARA)

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This study aims to design and develop an Android-based attendance management application using the Waterfall method, with a case study at PT. Stuva Kreasi Nusantara. The application addresses the challenges of the manual attendance system using WhatsApp, which is inefficient and prone to errors. Utilizing React Native and Node.js frameworks and MySQL for database management, the application offers automated features such as employee attendance, leave requests, and shift requests. Implementation results show that the application enhances operational efficiency by reducing recording errors and facilitating real-time attendance monitoring. Testing with the black-box method confirms that the application operates as specified, providing an effective solution for attendance management and strategic decision-making.

Keywords: attendance management, Android application, Waterfall method, React Native, MySQL, operational efficiency