

ABSTRACT

DESIGN AND DEVELOPMENT OF A WEB-BASED STUDENT CLASS ATTENDANCE APPLICATION USING QR CODE WITH A WATERFALL APPROACH AT UNIVERSITAS NASIONAL

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This design and development aim to create a web-based student class attendance system using QR Code technology at Universitas Nasional. The application is designed to enhance efficiency and accuracy in the attendance process, which was previously done manually and time-consuming. This design and development encompass the stages of the waterfall model, such as the requirement stage, which involves planning and analyzing the application's needs, followed by the design stage, which involves designing the application's architecture based on finalized requirements. Then comes the implementation stage, which translates the application architecture design into functional code. Lastly, the verification stage involves testing the built application to ensure it meets the requirements and functions properly and accurately.

Keywords: Attendance Application, QR Code, Web-based Application, Waterfall, Universitas Nasional.