

DEVELOPMENT OF A WEB-BASED INFORMATION SYSTEM FOR BINA TAUHID STUDENTS' ISLAMIC BOARDING SCHOOL (PPMABIT) USING THE WATERFALL METHOD

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Abstract

Background - Pondok Pesantren Mahasiswa Bina Tauhid (PPMABIT) Universitas Djuanda plays a strategic role in forming student with superior character and integrity, in line with the 21 Tauhid Character Values (NKT). Informations management in the pesantren is still manual, affecting operational efficiency and data accessibility.

Purpose - To develop a web-based information system that integrates administrative processes, information dissemination, and management, aiming to enhance efficiency and organization within PPMABIT.

methodology - The research user the waterfall model for system development, involving stages such as requirement analysis, system design, implementation, and testing. The system is built using HTML, CSS, and JavaScript for the frontend, and MySQL for the database.

Findings - The developed web-based information system significantly improves data management efficiency by up to 80% making it easier for users, including students, administrators, and campus officials, to access information

Originality - The reseach provides an innovative solution for the digital transformation of Islamic boarding schools, particulary in managing administrative tasks and improving communication within the pesantren.

Keywords: Information Systems, Web-Based, Islamic Boarding School, Digitalization, Waterfall Model, Djuanda University, 21 Values of Tauhid Character, Frontend Development, Education Platform
