

ABSTRACT

Design and Development of a Web-Based Knowledge Management System Application Using the RAD Method (Case Study: Nurul Fattah Islamic Boarding School)

Muhammad Alfi Geovanni.¹⁾, Johannes Hamonangan Siregar., drs, M.Ed, P.hD.²⁾

1) *Student of Information System Department, Pembangunan Jaya University*

2) *Lecturer of Information System Department, Pembangunan Jaya University*

This study aims to improve access to religious education, optimize material management, prevent the loss of tacit knowledge, enhance understanding of explicit knowledge, and create a dynamic learning process. To achieve these goals, a web-based Knowledge Management System was designed with a case study of Pondok Pesantren Nurul Fattah. As a non-formal educational institution, the pesantren faces several issues such as limited access to religious learning materials, difficulties in maintaining and updating materials, and dependence on individuals' tacit knowledge. The research method used is qualitative descriptive, applying the SDLC (System Development Life Cycle) system development method with a RAD (Rapid Application Development) approach. The results of this study show that the design and implementation of the knowledge management information system can achieve the objectives of improving access to religious education and optimizing knowledge material management at the pesantren effectively and efficiently.

Keywords: *Information System, Knowledge Management, Pembangunan Jaya University, Nurul Fattah Islamic Boarding School.*