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Judul : SISTEM INFORMASI REKAPITULASI PENILAIAN AKADEMIK SANTRI
MENGUNAKAN METODE RULE-BASED SYSTEM PADA TPQ
NURUSSALAM KALIMADE

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ABSTRAK

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**SISTEM INFORMASI REKAPITULASI PENILAIAN AKADEMIK SANTRI
MENGUNAKAN METODE *RULE-BASED SYSTEM* PADA TPQ NURUSSALAM
KALIMADE**

Proses rekapitulasi penilaian santri di TPQ Nurussalam Kalimade masih dilakukan secara manual sehingga berpotensi kehilangan data, tidak memiliki arsip yang terstruktur, dan penyusunan laporan kurang efektif. Penelitian ini bertujuan membangun Sistem Informasi Rekapitulasi Penilaian Akademik Santri Menggunakan Metode *Rule-Based System* Pada TPQ Nurussalam Kalimade dengan berbasis web. Metode pengembangan yang digunakan yaitu RAD (*Rapid Application Development*) dimana metode ini mengutamakan keterlibatan pengguna disetiap tahap pengembangan. Sedangkan, *Rule-Based System* diterapkan untuk menentukan hasil evaluasi penilaian belajar santri secara otomatis. Sistem dibangun menggunakan bahasa pemrograman PHP *native* dan *database MySQL* dengan dua hak akses yaitu guru dan santri. Hasil penelitian ini menunjukkan bahwa sistem mampu membantu guru dalam mengelola data santri, penilaian baca Al-Qur'an, penilaian mata pelajaran, pengelolaan tugas, serta penyusunan laporan hasil belajar secara otomatis, efisien, dan akurat. Sistem yang dikembangkan dapat membantu proses rekapitulasi penilaian akademik santri secara keseluruhan dan membantu guru menentukan hasil evaluasi pembelajaran berdasarkan *Rule-Based System*. Dengan demikian, pengelolaan nilai dan penyusunan laporan hasil belajar lebih mudah, efisien, dan terstruktur dan meminimalkan kesalahan pencatatan dibandingkan proses sebelumnya yang masih manual.

Kata Kunci: Sistem Informasi, Rekapitulasi Penilaian, *Rule-Based System*, *Rapid Application Development* (RAD), TPQ.

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ABSTRACT

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**INFORMATION SYSTEM FOR RECAPITULATION OF SANTRI ACADEMIC
ASSESSMENT USING A RULE-BASED SYSTEM AT TPQ NURUSSALAM
KALIMADE**

The recapitulation process of santri assessment at TPQ Nurussalam Kalimade is still carried out manually, which has the potential to result in data loss, unstructured archiving, and less effective report preparation. This study aimed to develop a web-based Information System for Recapitulation of Santri Academic Assessment Using a Rule-Based System at TPQ Nurussalam Kalimade. The development method used was RAD (Rapid Application Development), emphasising user involvement at each stage of development. Meanwhile, the Rule-Based System was implemented to automatically determine the results of santri learning assessments. The system was developed using the PHP native programming language and MySQL database, with two access levels: teachers and santri. The results showed that the system was able to assist teachers in managing santri data, Qur'an reading assessments, subject assessments, assignment management, and the preparation of learning outcome reports automatically, efficiently, and accurately. The developed system can support the overall recapitulation of santri academic assessments and assist teachers in determining learning evaluation results based on the Rule-Based System. Thus, the management of grades and preparation of learning outcome reports became easier, more efficient, and more structured, while minimising recording errors compared with the previous manual process.

Keywords: *academic assessment recapitulation, information system, Rapid Application Development, Rule-Based System, TPQ*