

RANCANG BANGUN APLIKASI *KNOWLEDGE MANAGEMENT SYSTEM* BERBASIS *WEBSITE* TENTANG PENANGGULANGAN PENYAKIT *SCABIES* PADA PONDOK PESANTREN DARUNNA'IM YAPIA

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ABSTRAK

Penyakit kulit *scabies* merupakan permasalahan kesehatan yang berpotensi menyebar di lingkungan pondok pesantren akibat tingginya interaksi sosial harian. Sebagai upaya mitigasi preventif dan peningkatan kualitas layanan medis, penelitian ini menawarkan sistem usulan berupa aplikasi *Knowledge Management System* berbasis *website* yang secara khusus dirancang untuk penanggulangan penyakit *scabies* di Pondok Pesantren Darunna'im Yapia. Kehadiran sistem ini bertujuan untuk mendigitalisasi proses administrasi kesehatan, menyentralisasi pendokumentasian rekam medis, serta mempercepat distribusi materi edukasi. Pengembangan perangkat lunak dilakukan menggunakan metode *Agile* dengan kerangka kerja *Scrum*. Sistem ini dirancang menggunakan teknologi React.JS untuk antarmuka pengguna dan Express.JS untuk pemrosesan basis data MySQL. Aplikasi yang dibangun menyediakan berbagai modul utama, meliputi publikasi materi edukasi, pemeriksaan awal kesehatan, pencatatan observasi kebersihan santri, inspeksi kebersihan kamar, serta ruang konsultasi daring secara langsung antara santri dan tim kesehatan. Berdasarkan hasil pengujian fungsionalitas melalui *Black Box Testing*, sistem terbukti beroperasi seratus persen sesuai dengan spesifikasi yang diharapkan tanpa kegagalan logika. Selain itu, tahap *User Acceptance Testing* yang melibatkan pihak pesantren menghasilkan nilai sempurna yaitu 5 yang berarti Sangat Sesuai pada skala Likert. Hasil penelitian ini menyimpulkan bahwa aplikasi *Knowledge Management System* yang diusulkan sangat praktis dan berhasil meningkatkan efisiensi operasional tim kesehatan, memperluas literasi medis pengguna, serta mempermudah pimpinan pesantren dalam memitigasi penyebaran penyakit *scabies* secara cepat.

Kata Kunci: *Knowledge Management System*, *Scabies*, Pondok Pesantren, *Website*, *Agile Scrum*

DESIGN AND DEVELOPMENT OF A WEB-BASED KNOWLEDGE MANAGEMENT SYSTEM APPLICATION FOR SCABIES PREVENTION AND CONTROL AT DARUNNA'IM YAPIA ISLAMIC BOARDING SCHOOL

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ABSTRACT

The scabies skin disease is a health issue that potentially spreads in Islamic boarding schools due to high daily social interactions. As a preventive mitigation effort and to improve the quality of medical services, this research offers a proposed system in the form of a website-based Knowledge Management System application specifically designed for tackling scabies disease at Darunna'im Yapia Islamic Boarding School. The presence of this system aims to digitalize the health administration process, centralize medical record documentation, and accelerate the distribution of educational materials. Software development is carried out using the Agile method with the Scrum framework. This system is designed using React.JS technology for the user interface and Express.JS for MySQL database processing. The built application provides various main modules, including the publication of educational materials, initial health screening, recording of student hygiene observations, room hygiene inspections, and direct online consultation rooms between students and the health team. Based on the results of functionality testing through black box testing, the system is proven to operate one hundred percent in accordance with the expected specifications without logic failures. Furthermore, the user acceptance testing stage involving the boarding school parties resulted in a perfect score of 5 which means Very Suitable on the Likert scale. The results of this study conclude that the proposed Knowledge Management System application is highly practical and successfully improves the operational efficiency of the health team, expands students medical literacy, and makes it easier for boarding school leaders to mitigate the spread of scabies disease quickly.

Keywords: Knowledge Management System, Scabies, Boarding School, Website, Agile Scrum