

ABSTRAK

Malvin Malashandy. 2025. Optimalisasi Proses Seleksi Penerima Beasiswa Melalui Pengembangan Sistem Berbasis *Web* Dengan Metode *Rapid Application Development* (RAD) Pada Dinas Pendidikan Kabupaten Madiun. Program Studi Sistem Informasi, Universitas PGRI Madiun. Pembimbing (I) Dimas Setiawan, S.Kom., M.Kom. (II) Ridho Pamungkas, S.Kom., M.Kom.

Proses seleksi penerima beasiswa di Dinas Pendidikan Kabupaten Madiun masih dilakukan secara manual, sehingga menimbulkan permasalahan berupa lamanya waktu, potensi kesalahan data, dan kurangnya transparansi. Penelitian ini bertujuan untuk mengoptimalkan proses tersebut dengan merancang sistem informasi berbasis web menggunakan metode Rapid Application Development (RAD) yang bersifat cepat, iteratif, dan adaptif terhadap kebutuhan pengguna. Sistem dikembangkan dengan framework Laravel dan database MySQL, serta menyediakan tiga fitur utama, yaitu pendaftaran peserta, verifikasi dokumen, dan perangkan otomatis berdasarkan kriteria seleksi. Pengujian menggunakan metode blackbox dilakukan untuk memastikan kesesuaian fungsionalitas dengan kebutuhan pengguna. Hasil penelitian menunjukkan bahwa sistem mampu meningkatkan efisiensi waktu, akurasi data, serta menjamin transparansi dan akuntabilitas, sehingga dapat menjadi solusi teknologi yang efektif dalam proses seleksi penerima beasiswa di Kabupaten Madiun.

Kata Kunci: Beasiswa, Sistem Informasi, Web, *Rapid Application Development* (RAD), Transparans

ABSTRACT

Malvin Malashandy. 2025. *Optimization of the Scholarship Recipient Selection Process Through the Development of a Web-Based System Using the Rapid Application Development (RAD) Method at the Department of Education, Madiun Regency*. Information Systems Study Program, Universitas PGRI Madiun. Advisors: (I) Dimas Setiawan, S.Kom., M.Kom., (II) Ridho Pamungkas, S.Kom., M.Kom.

The scholarship selection process at the Madiun District Education Office is still conducted manually, leading to several issues such as lengthy processing time, potential data errors, and lack of transparency. This study aims to optimize the process by designing a web-based information system using the Rapid Application Development (RAD) method, which is fast, iterative, and adaptive to user needs. The system was developed with the Laravel framework and MySQL database, providing three main features: participant registration, document verification, and automatic ranking based on predefined criteria. Blackbox testing was applied to ensure that the system's functionality met user requirements. The results show that the system successfully improves time efficiency, data accuracy, as well as transparency and accountability, making it an effective technological solution for the scholarship selection process in Madiun District.

Keywords: Scholarship, Information System, Web-Based, Rapid Application Development (RAD), Transparency.