

## **LINTANG PRASETYO AJI**

**SISTEM INFORMASI PENERIMAAN SANTRI DAN SANTRIWATI BARU  
DI PONDOK PESANTREN TAHFIDZUL QUR'AN (PPTQ) AL-IKHLAS  
WONOTUNGGAL BERBASIS WEBSITE**, di bawah bimbingan Much Rifqi  
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106 + xii halaman / 49 gambar / 15 tabel / 15 pustaka (2019 – 2024)

### **ABSTRAK**

Proses penerimaan santri dan santriwati baru di Pondok Pesantren Tahfidzul Qur'an (PPTQ) Al-Ikhlas Wonotunggal masih dilakukan secara manual menggunakan formulir kertas, menyebabkan inefisiensi waktu, kesulitan membaca tulisan tangan, keterlambatan pengolahan data, dan potensi kehilangan dokumen. Penelitian ini bertujuan untuk merancang dan membangun sistem informasi penerimaan santri dan santriwati baru berbasis website untuk meningkatkan efisiensi proses pendaftaran, pengelolaan data, validasi berkas dan pengumuman hasil seleksi. Metode pengembangan sistem menggunakan model *Waterfall* dengan tahapan *Communication, Planning, Modelling, Construction* dan *Deployment*. Pengumpulan data dilakukan melalui observasi, wawancara, dengan pengurus pesantren dan studi dokumen. Perancangan system menggunakan UML (*Use Case, Activity, Sequence* dan *Class Diagram*) serta Lembar Kerja Tampilan (LKT). Sistem dibangun menggunakan *Framework CodeIgniter 4* berbasis PHP dengan database MySQL. Pengujian dilakukan menggunakan *White Box, Black Box* dan *User Acceptance Testing (UAT)*. Hasil penelitian menunjukkan sistem berhasil memenuhi kebutuhan fungsional dengan fitur pendaftaran online, pengelolaan data pendaftar, penilaian seleksi, perangkingan otomatis dan ekspor laporan. Implementasi sistem ini mampu meningkatkan efisiensi waktu, mengurangi kesalahan pencatatan, serta memudahkan panitia dan calon santri dalam mengakses informasi pendaftaran secara *real-time*.

**Kata Kunci** : Sistem Informasi, Penerimaan Santri Baru, Website, *Waterfall, CodeIgniter*

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### ***ABSTRACT***

*The new student admission process at Pondok Pesantren Tahfidzul Qur'an (PPTQ) Al-Ikhlal Wonotunggal is still conducted manually using paper forms, causing difficulties in reading handwriting, delays in data processing and potential document loss. This research aims to design and develop a website-based information system for student admission to improve the efficiency of registration processes, data management, document validation and selection result announcements. The system development method uses the Waterfall model with stages of Communication, Planning, Modelling, Construction and Deployment. Data collection was conducted through observation, interviews with pesantren administrator and document studies. System design utilized UML (Use Case, Activity, Sequence dan Class Diagram) and Display Work Sheets. The system was built using the CodeIgniter 4 Framework based on PHP with a MySQL database. Testing was performed using White Box, Black Box and User Acceptance Testing (UAT) methods. Research result show the system successfully meets functional requirements with features including online registration, applicant data management, selection assessment, automatic ranking and report export. The system implementation successfully improves time efficiency, minimize data entry errors and enables both the admission committee and prpspevtive student to acces registration information in real-time.*

**Keyword :** *Information System, Student Admission, Website, Waterfall, CodeIgniter*