

ABSTRAK

Laporan Akhir ini membahas perancangan dan implementasi aplikasi *E-Visitor* berbasis *Website* dengan teknologi *Face Recognition* menggunakan metode *Linear Discriminant Analysis (LDA)* dan klasifikasi *Euclidean Distance* untuk proses absensi tamu di Dinas Kearsipan Provinsi Sumatera Selatan. Sistem ini dikembangkan guna menggantikan metode absensi manual dan *Google Form* yang dianggap belum efisien. Aplikasi dirancang agar dapat diakses melalui pemindaian *QR Code* tanpa instalasi tambahan, dan memanfaatkan kamera perangkat untuk verifikasi wajah. Implementasi dilakukan menggunakan kombinasi teknologi *HTML*, *CSS*, *Bootstrap*, *PHP native*, dan *Python*. Berdasarkan hasil pengujian terhadap 30 partisipan dengan total 120 data uji, sistem berhasil mengenali 100 wajah dengan benar, menghasilkan akurasi sebesar 83.33%. Meskipun masih terdapat beberapa kendala, sistem ini menunjukkan potensi besar dalam menghadirkan proses absensi yang lebih cepat, mandiri, dan akurat.

Kata Kunci : *E-Visitor*, *Face Recognition*, *Linear Discriminant Analysis*, *Euclidean Distance*, Absensi Tamu.

ABSTRACT

This Final Report discusses the design and implementation of the E-Visitor web-based application utilizing Face Recognition technology with Linear Discriminant Analysis (LDA) and Euclidean Distance classification for Guest Attendance at the Provincial Archives Office of South Sumatra. The system was developed to replace manual attendance methods and the use of Google Forms, which were considered inefficient. The application is accessible via QR Code scanning without requiring additional installation, and it uses the device's camera for facial verification. The system was built using HTML, CSS, Bootstrap, native PHP, and Python. Based on testing involving 10 participants with a total of 120 test images, the system successfully recognized 100 faces, resulting in an accuracy of 83.33%. Although several limitations remain, the system demonstrates strong potential in providing a faster, autonomous, and more accurate Guest Attendance process.

Keywords : *E-Visitor, Face Recognition, Linear Discriminant Analysis, Euclidean Distance, Guest Attendance*

