

ABSTRACT

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FRONT-END DEVELOPMENT FOR AUTOMATED ATTENDANCE USING FACIAL RECOGNITION TECHNOLOGY

PT MARKTEL was established through the initiative of a group of lecturers from the Electronics Laboratory at the Bandung Institute of Technology. With a solid research background, they developed technology-based products that were later turned into commercial goods. At PT Manunggaling Rizky Karyatama Teltnics (MARKTEL), the practitioner was responsible for developing an intuitive user interface integrated with facial recognition technology. The system was designed to automatically record attendance with a high level of efficiency. The development process involved requirement analysis, design, implementation, and system testing. As a result, the attendance system can record employee data in real-time, reduce physical interaction, and improve operational efficiency. The project also faced challenges such as real-time data synchronization, face data management, and hardware limitations, which were successfully resolved through innovative solutions.

Keywords: *Facial recognition, Automatic attendance, Front-End*