ANDROID MOBILE-BASED ATTENDANCE APPLICATION USING GEOLOCATION AND FACE-RECOGNITION TECHNOLOGY

RADEN ABEL ZERACH JONATHAN
Informatics Study Program, Faculty of Science & Technology,
Yogyakarta University of Technology
Jl. North Ringroad Jombor Sleman Yogyakarta
E-mail: radenabel22@gmail.com

ABSTRACT

The attendance application is developed by integrating geolocation and facial recognition technologies, both designed to combat fraud in the online attendance process for employees of private companies. Geolocation technology ensures the accurate location of employees when they clock in, while facial recognition technology verifies their presence through features that can identify individual faces. Researchers employed the waterfall model to construct the application. The qualitative approach utilized in this study aids researchers in organizing their research. The research methodology follows a sequence that includes a literature review, observation of data requirements, design, implementation, application testing, and concluding the tests conducted on the attendance application. Testing conducted with thirty users demonstrated that all participants successfully completed the attendance process using the application, resulting in accurate user location data during attendance.

***Keywords**: Geolocation, Face Recognition, Presence Application, Waterfall.*