

ABSTRACT

Ahmad Naufal, 50422126

DESIGN AND DEVELOPMENT OF A BIOMETRIC-BASED MOBILE ATTENDANCE APPLICATION INTEGRATED WITH THE ODOO SYSTEM

*PI, Faculty of Industrial Technology, Department of Informatics,
Gunadarma University, 2026*

Keywords: Biometric Authentication, Flutter, Mobile Attendance, Odoo

(xi + 65 + Appendix)

The rapid development of information technology has encouraged the implementation of attendance systems that are more practical and efficient through mobile devices. This study aims to develop a mobile attendance application integrated with the Odoo system and to implement biometric authentication as a user login method. The application was developed using the Flutter framework and the Dart programming language, while Odoo serves as the backend for managing user and attendance data. The authentication system utilizes biometric features available on Android devices, such as fingerprint and face recognition, depending on the capabilities supported by the device. The main features of the application include login using a username and password, biometric authentication, attendance check in and check out processes, and login session storage. The application was tested using Blackbox Testing and User Acceptance Testing (UAT) methods. The test results indicate that all application features functioned according to the system requirements. While the UAT achieved a score of 93,38%, which falls into the Very Good category. Therefore, the developed application is capable of providing a practical and efficient authentication process while supporting employee attendance management integrated with Odoo.

Bibliography (2018-2026)