

ABSTRACT

In the current digital era, mobile applications have become highly popular across various fields, including workplace attendance systems. This research aims to develop a mobile-based attendance system application with location coordinate validation that collaborates with task management. The application is designed to enable employees to process their attendance through smartphones, featuring key aspects such as location coordinate validation via GPS and integration with task management for attendance-related tasks.

The development method of this application adopts a prototype-based software development approach. This approach is employed to create a temporary version or a simplified model of the intended application product. In testing results, the application effectively demonstrates that location coordinate validation can provide a high level of accuracy in verifying employee attendance. Furthermore, the integration with task management also facilitates user accessibility and involvement in attendance-related tasks. Hence, it is anticipated that this application can enhance efficiency and accuracy within workplace attendance systems.

Keywords— Mobile application, attendance system, validation of location coordinates, GPS, task management, prototyping