

ABSTRACT

The current attendance system requires updating a new system, considering that mobile activity in this era is very high. Attendance as a parameter measuring employee's performance in electronic goods supply companies such as Dazzle, which is currently unstructured. Regarding this, the problem studied is how to implement an attendance system on mobile devices such as Android. The purpose of implementing this system is that employees can perform attendance independently through their own mobile devices. From this, an Android-based mobile attendance application was created using the Location Based Service (LBS) feature, with this feature, employees can make attendance through their own Android mobile devices without queuing in one computer. This Android attendance application can find coordinates of the employee's location when carrying out attendance activities with assistance of a navigation system called Global Positioning System (GPS), allowing employees to perform presence with predetermined radius. This application has been integrated with Google Maps service in determining distance differences between user and Dazzle location outlet. This Google Maps service also eases developers to create and describe applications related to location services. Based on the conducted research, it can be concluded that Location Based Service usage in calculating distance, latitude and longitude can be implemented properly, so that, the application can be used to update employee's attendance system.

Keywords: Android, Attendance, Dazzle, Global Positioning System, Location Based Service