

Location Tracking using Smartphones

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Abstract: *In this paper, we present an android application that facilitates seamless location tracking for an individual. Our application is based on GPS location services that provide accurate and approximately location information of an individual and updates the same on a cloud server. It fetches location every few minutes to provide to save battery of the device the application is running on as fetching location repeatedly might have poor impact on the battery health of the device. It allows authorized people to access this location from the server so that they can know the location an individual or a group of individuals.*

Keywords: Smartphones, Android, Location, GPS, Geofences, SMS.

REFERENCES

- [1]. <https://developer.android.com/>
- [2]. <https://www.gps.gov/>
- [3]. https://www.faa.gov/about/office_org/headquarters_offices/ato/service_units/techops/navservices/gnss/gps
- [4]. <https://developer.android.com/training/location/geofencing>
- [5]. https://en.wikipedia.org/wiki/One-time_password
- [6]. <https://developer.android.com/reference/android/provider/Telephony.Sms>