



# Mobile Tracking

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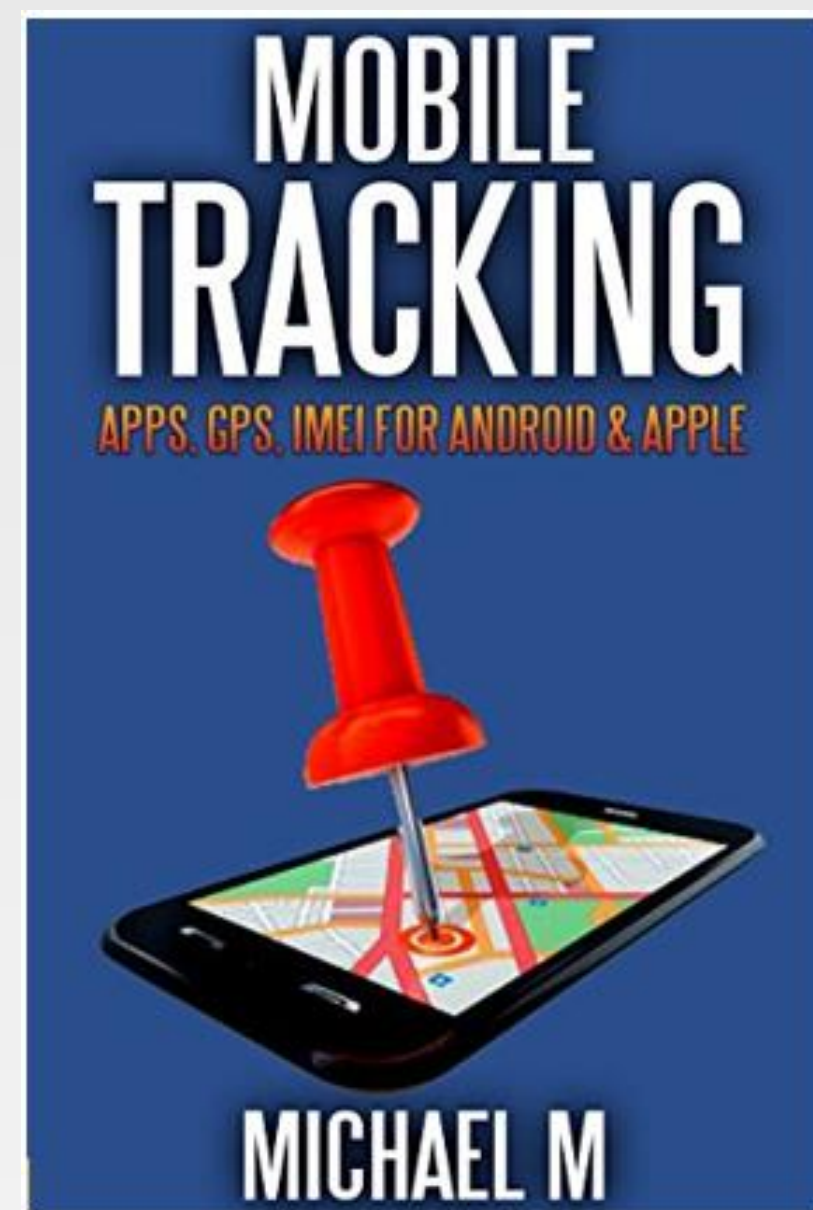
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## Introduction

Mobile Tracking is an act of locating a mobile phone in a still or moving phase. It is a mobile application designed to run on a phone, tablet, laptop or watch. Mobile Tracker allows to detect IP changes as the mobile rotates through various networks. Originally, this mobile app is developed with the GPS system, also known as Global Positioning System.

GPS system became viral to use in various app as its ability to track down a place in a few seconds. These GPS uses Global Navigation Satellite System (GNSS) network that ranges with the satellites that use microwave signals that are transmitted to GPS devices to track the location. Through GPS, velocity and time can also be measured.



## Scheme

GPS is widely used radio-navigation system formed from the constellation of 24 satellites and their ground stations. The tracking app is designed so that it works on a wide range of devices such as Apple iOS, Android, and Windows phone based devices.

## What Are the Benefits of a Mobile Phone Tracking System?

There is a nearly endless array of circumstances you can find yourself in that may lead to wondering how to track a cell phone.

## Structure

Although seems effortless to use the application, its implementation has a wide range to study about, such as network, server, software for data analysis and many more. Using the subscriber identity module (SIM) in GSM and UMTS handsets, it is workable to obtain raw radio measurements from the handset. However, the data obtained from SIM can vary from that of handset.

## Legal or Illegal

Typically, the law enforcement officials are authorized to legally track a mobile phone. With the mobile tracker app, that identifies the location of the number and displays the number is registered it is safe and secured. However, mobile tracking is legal if the place has a permission from the owner.

## Facts

Before handling the application publicly, it is very important for a developer to have a concern about the application. In particular, know the purpose of the app, well understand the necessity of app in the surrounding, kind of platform to use in such as android or ios, planning an attractive design, focus on security concerns.

## Defects



Privacy plays a vital role when using a mobile application. The location information of the users are noted by the companies. Also, friends can also track down the location. However, if the phone is switched off, the location tracker does not work accordingly, as a result, it states the place where the mobile was turned off.

## References

- <https://www.eetimes.com/how-does-a-gps-tracking-system-work/>
- <https://www.coremobileapps.com/key-considerations-in-mobile-app-development-projects/>
- <https://www.lifewire.com/legally-track-cell-phone-4160372>
- <https://www.side.cr/the-pros-and-cons-of-tracking-cellphones/>