TRACKMATE

A
MINOR PROJECT REPORT

Submitted for the partial fulfillment of

BACHELOR OF TECHNOLOGY
IN
COMPUTER SCIENCE AND ENGINEERING

Submitted by

NITESH GOYAL
SHREYANS PATHAK
KETAN RAJORIYA
SAURAV ARORA

Under the Guidance
of
Dr. Devpriya Soni
(Deptt of CSE/IT)

MAY 2015

Department of Computer Science and Engineering/IT
Jaypee Institute of Information Technology, Noida, Sector 128

ACKNOWLEDGEMENT

I would like to place on record my deep sense of gratitude to Dr. Devpriya Soni, faculty, Jaypee Institute of Information Technology, India for her generous guidance, help and useful suggestions.

I express my sincere gratitude to Prof. Tajinder Kaur, Dept. of Computer Science & Engineering, India, for her stimulating guidance, continuous encouragement and supervision throughout the course of present work.

I also wish to extend my thanks to Prof. Gaurav Nigam and other classmates for their insightful comments and constructive suggestions to improve the quality of this project work.

Signature(s) of Students

Nitesh Goyal (9912103525)

Shreyans Pathak (9912103526)

Ketan Rajoriya (9912103533)

Saurav Arora(9912103543)

ABSTRACT

Accounting for more than half of the presently used hand-held devices, Android, as an operating system, has provided users with great opportunity to innovate and get things done in a mobile device. It is because IT has become the new part of the world. There is a big need of different applications. People want software for every specific task to make the work easier. We have developed the android application on "Location Tracking" which work easy on Internet.

This android based solution aid the general user to track their friends and family members in real time. Mobile phones with location services capabilities allowing us to get the device's geographic position in real time. The proposed application takes the advantage of the location services provided by mobile phone. This Mobile application use the GPS and SMS services found in android mobile phones. It have a feature to locate the current position on Google map. It allows the general user to send their location to nearby members on a real time map. Though user may be located anywhere in the world, he must have network connectivity and be GPS enabled. Initially the app is developed for Android platform only, but can be expanded to cross-platform use in future. The app is free and the intuitive interface is easy to understand so that the general user can easily adapt themselves to use it. Also, the application is secure allowing only one user per phone.

TABLE OF CONTENTS

List of Tables

List of Figures

Abbreviations and Nomenclature

API	Application Programming Interface
GCM	Google Cloud Messaging
UI	User Interface
LBS	Location Based Service
GPS	Global Positioning System
SMS	Short Messaging Service
OS	Operating System
v	Version
ADT	Android Development Tool
SDK	Software Development Kit
IDE	Integrated Development Environment
AVD	Android Virtual Device