

A PROJECT REPORT

ON

“LOCATION TRACKER APP”

-Submitted by

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INTRODUCTION ABOUT THE COMPANY

ZEPHYR TECHNOLOGIES is a software company located in Mangalore which delivers high quality, cost effective, reliable result oriented web and e-commerce solutions on time for a global clientele. The company has delivered on IT projects of varying complexities for very demanding and internet savvy clients spread across the globe. They develop unique web solutions which ensure increased efficiency and competitive advantage for business and thus to end users.

Zephyr Technologies provide android development ,web development, embedded and IOT systems Internships which are very important for a student career, Also the company works toward getting better than the best out of every team member ,which means they hire us all round quality is assured off as we want it. Zephyr Technologies project managers and business analysts place great values for building a clean communication link as they consider it as the key ingredient for the success of any project at hand.

ABSTRACT:

Now a days lots of cases seen of missing Childs. The Childs are missing have ages

between 14 to 17.Parents are worried about childs. The paper explains about an

android application which is used to track the missing children. Nowadays lots of

mobile phone users have an android phones. The application works with the help

of android mobile. The android application is based on GPS service in Android

mobile. There is a background service which keeps the track of the location of the

child and the location gets safely stored into the database.Parents can monitor

their child throughout the day by just giving the date and time.

INTRODUCTION ABOUT THE PROJECT

Children tracking system is widely used all over the world to assure their parent‘s

that their wards are safe from suspicious actions in today‘s world over 80% of the

world population in the age of seven or eight owns smart phone . The

proposed system includes tracking the child movements outside from the home.

This is due to reason one of them is the remarkable features and capabilities that

new smart phone offers especially android based smart phones. GPS offers

outstanding capabilities in locating positions and this can be used to developed

resourceful application that helps in locating missing or lost children. This project

is designed to be used by parents and aimed to help locating missing or lost

children. There is a background service which keeps the track of the location of

the child and the location gets safely stored into the database. It takes advantages

of the fact that many of today‘s children bring smart phone which is convenient

for this kind of situation.

IMPROVEMENT

1. Existing System:

System developed by Yuichiro MORI, et.al, uses ―Autonomous Clustering

Technique for managing groups of Android terminals attached to children

in school. Android terminals have wireless LAN and Bluetooth device. It

results in lack of individual attention towards the children. It offers less security .

Studies conducted by Cyber Travel Tips , showed that in Malaysia, missing

children are basically classified into two categories. The

first category is disappearance, which includes running away from home.

Children tracking system is also developed on mobile ad hoc networks. System

developed says that in GPS system and tag based system, each parent cannot

obtain group information on the vicinity of the child. A self –configurable new

generation children tracking system. Hiroshima City Children Tracking System is a

safety support system for children based on ad hoc network technologies. Field

experiments have been conducted in cooperation with an elementary school in

Hiroshima. In this paper, propose a new generation children tracking system

which is based on experiences and findings of the field experiments for Hiroshima

children tracking system . Existing technologies, however, are not powerful to

prevent crimes against children and helpful parent‘s since it is difficult to take

information of children as a group.

2)Proposed System

The proposed application is android-based, developed on android studio using

java and xml requires internet connection and will provide a platform for tracking

the child location after they successfully signin into the system .This app is helpful

to those parents who want to keep track of the activity of the child .Due to

background services location along with date and time gets stored into the

database and the parents who want to monitor their child can just sign in and

enter the required date and time .The address gets displayed which gives the

exact location of the child at the given date and time. This is how parents can

track the activities of the child (LOCATION) throughout the day.

REQUIREMENT SPECIFICATION

HARDWARE REQUIREMENT

* Processor : Intel Core i5
* Speed : 2.5 GHz
* RAM : 4GB
* System type : 64-bit sytem

SOFTWARE REQUIREMENT

* Software : Android Studio
* Database : My SQL
* Operating System : Windows 10

IMPLEMENTATION

Details of the language used

Java is among the most popular programming languages out there, mainly because of how versatile and compatible it is. Java can be used for a large number of things, including software development, mobile applications, and large systems development. As of 2019, 88% market share of all smartphones run on Android, the mobile operating system written in Java. Knowing Java opens a great deal of doors for you as a developer.

ABOUT ANDROID STUDIO:

Android Studio is the integrated development environment for Google’s Android platform. Versions of Android Studio are compatible with some Apple, Windows and Linux operating systems

The following features are provided in the current stable version:

* [Gradle](https://en.wikipedia.org/wiki/Gradle)-based build support.
* Android-specific [refactoring](https://en.wikipedia.org/wiki/Code_refactoring) and quick fixes.
* [Lint](https://en.wikipedia.org/wiki/Lint_(software)) tools to catch performance, usability, version compatibility and other problem .
* [ProGuard](https://en.wikipedia.org/wiki/ProGuard_(software)) integration and app-signing capabilities.
* Template-based wizards to create common Android designs and components.
* A rich [layout editor](https://en.wikipedia.org/wiki/Graphical_user_interface_builder) that allows users to drag-and-drop UI components, option to [preview layouts](https://en.wikipedia.org/wiki/WYSIWYG) on multiple screen configurations.
* Support for building [Android Wear](https://en.wikipedia.org/wiki/Android_Wear) apps.
* Built-in support for Google Cloud Platform, enabling integration with Firebase Cloud Messaging (Earlier 'Google Cloud Messaging') and Google App Engine.
* Android Virtual Device (Emulator) to run and debug apps in the Android studio.

RESULTS

The screen outputs shown below is the outcome of this project :

* The first figure (fig. 1) shows a login page
* (fig. 2) shows a sign up page
* (fig. 3) shows a page if login is not successful
* (fig. 4) appears if login is successful and here parents can search the location by entering date and time
* (fig. 5) appears after pressing the search button which gives the required location

CONCLUSION

All parent wish to shield their children from real dangerous they will inevitably

undergo hard times. Normal behavior of any child depends on the child's age,

personality, and at the end the physical and emotional development. A child's

behavior may be a problem if it doesn't match the expectations of the family or if

it is disruptive.So Parents may face many problems with their children, when they

let them free without any observation especially if they have many children that

may face many dangers.

So this app helps to track child’s activity by giving the actual address where the

child has been to the parents throughout the day by just entering the date and

time.