

LOST PHONE TRACKING SYSTEM

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Abstract— Everyday many people lose their phone while travelling, due to theft or by any means and hardly get it back. Many such cases are registered in Police station(s) everyday and there is hardly any solution. The purpose of this project is to develop a system for android mobiles to track a lost phone and get them back to their users. The app will send the data to the server once the mobile connects to the internet even after someone resets it, and there will be a respective website, where the user can login and get the information about the lost phone with the help of GPS. The app will work in background and no icon of that app will be shown.

Index Terms— Location tracking, Firebase, Real-time database.

I. INTRODUCTION

There is a great hike in crime rate of stealing phones and it goes on increasing day by day. We have noticed that people lose their phones either because of thief or because of their carelessness. People lodge complaint at police station but according to reports the chances of getting the lost mobile is still less. We have found that hardly 10-20% of people get back their lost mobiles. As there are various chances of misplacing the phone or losing it is not affordable in today's scenario. We are developing an android app and a respective website for "Lost android phone tracking system". The purpose behind developing this project is to provide the android phone users to track their lost or misplaced android mobile phone.

II. PROPOSED SYSTEM

This paper presents the technique used for giving the facility to hide the app so that the unauthorized user is not aware of the existence of the app. The authorized user will be given a code which can be dialed on dialing pad to open the app for updating his profile. There is no facility of uninstalling of the app if the users activates the device administrator function which will be prompted on installing the app. This has been incorporated to avoid unauthorized user from uninstalling the application.

ADVANTAGES ARE:

1. Hide app facility.
2. Could not be uninstalled if device administrator activated.
3. Enables real-time tracking due to use of firebase database.

III. MODULES

A. Mobile Application

Application is to be installed on user's phone. If the phone is lost then the application will send its current location on receiving command from the website. Different modules of mobile application are:

- Hide App: The user will have to click hide app button provided on the screen presented when user opens his/her profile. This will not show the app in the menu.
- Open app using dialer: Each user will be given a secret code which can be used by user to open the app if he/she need to update the profile, etc .
- Know Your Location: User can view its current location on the app by clicking this button.
- Update Profile: In this section user can update its email id and phone number.

B. Website

Website contains the login form and track button. User is supposed to login with the username he/she created during registration on app and click track button to track the phone in real-time.

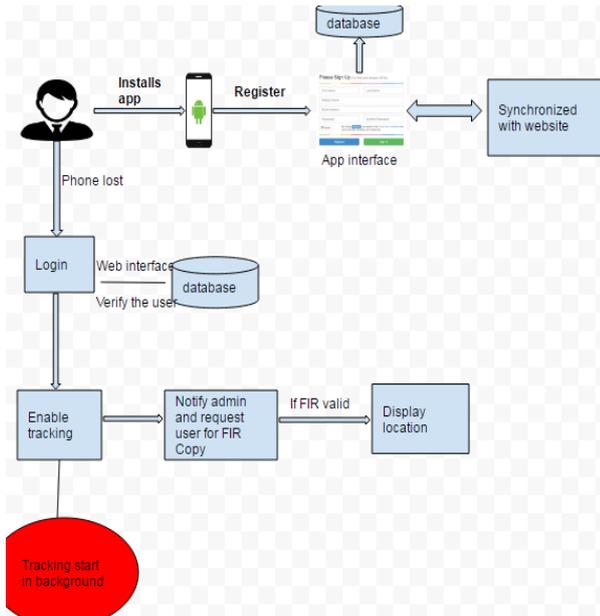
- Homepage: It displays the information about our app and its uses.
- Login Page: Login Modal is used as Login page. User can use its username and password for login which he/she had used during registration through application.
- Track: This is the page where you track your phone. When user clicks track the map showing current location will be displayed on the web page.

C. Database

The database used is Firebase real-time database(NoSQL). This enables real-time update of the location of user's phone.

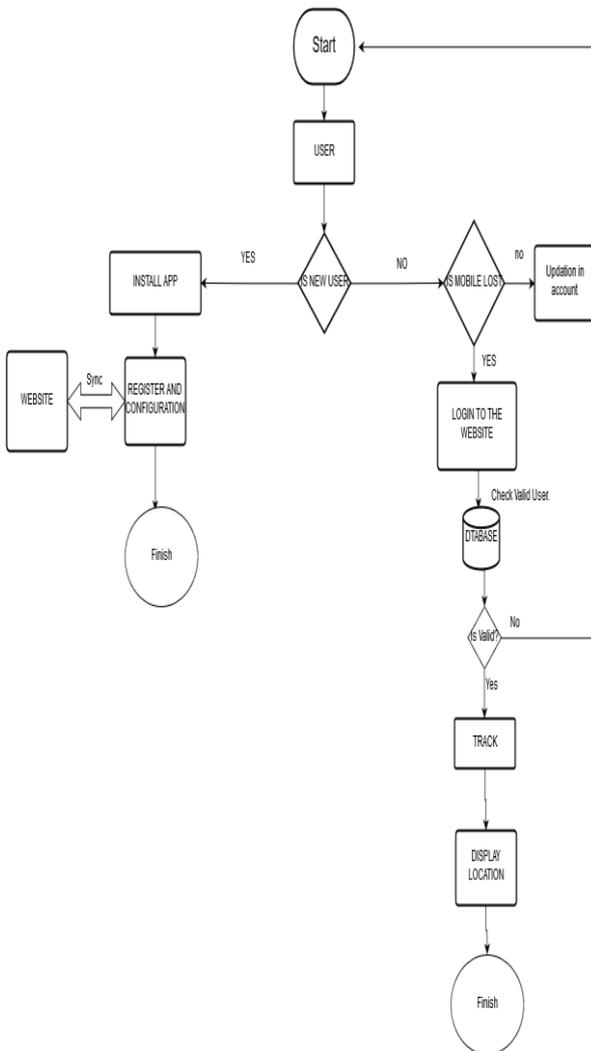
IV. ARCHITECTURE

Architecture shows the overall working of developed system. User first installs the app and registers with the email id, name, password, username etc. This same username and password is then used for logging into the website when the phone is lost. Tracking is started as soon as the user clicks track button on the website until then tracking does not take place.



Fig(1): Architecture

V.FLOWCHART



Fig(2): Flowchart

VI. IMPLEMENTATION AND RESULT

➤ SYSTEM REQUIREMENTS

- Android phone:
 1. RAM 1GB and above
 2. Android version: Android 5.1

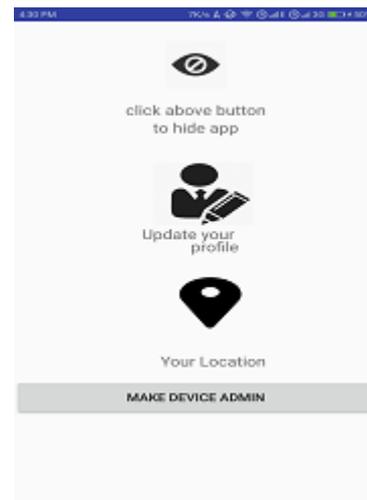
➤ TECHNOLOGIES USED

- Android Studio
- Firebase Database
- HTML and JavaScript.

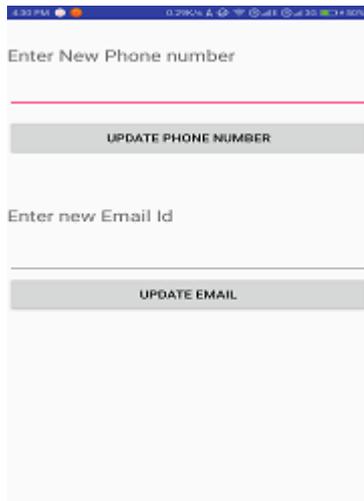
VII. SNAPSHOTS



Fig(3): Screen Shot 1



Fig(4): Screen Shot 2



Fig(5): Screen Shot 3



Fig(6): Screen Shot 4

VIII.CONCLUSIONS

Concepts such as “how to implement GPS based tracking of android device”, “how to make an android app as android system app” will be implemented. We will focus developing an efficient app and a respective app that helps users to track the location of their device , thus contributing towards the society.

IX. REFERENCES

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