MY PLACES

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Abstract - *Easy tracker is a small geographic android application that will be defined to generate a location event as soon as a user enters or leaves specified area. This application will provide the ability to divide interested geo-graphical area into different sub zones and based on branching of these zones a different alert message will be sent to users. The application will also provide the ability to automatically send a notification to users with mobile's current location after user configured time interval. Geo-Fencing technology enables an action to be taken when a device enters or leaves a specific geographical area. For smartphone calendar and to-do list users, Easy track will alert you as you pass a store that sells the milk you need. For office workers, Easy tracker will notify you when walking by the desk of a person you need to talk to, based on your workflow list. Users with location-aware wireless devices can query about their surroundings e.g., finding the nearest restaurant or all shopping malls or bank or ATM or hospitals within 5 miles at any place, anytime. Easy Tracker, a mobile application developed for the Android O/S that will enable the Storage, analysis and map visualization of routes of smartphone users.*

1. Introduction

This android application assimilate coordinates of the user from satellite using GPS(global Positioning system) among other critical information. Tracking system is very important in modern world .The system is based on microcontroller that consists of a global positioning system (GPS) and global system for mobile communication (GSM). This application uses only one GPS device and exchanging of data is achieved using a GSM modem. GSM modem, provided with a SIM card uses the same communication process as we are using in regular phone. The system is not limited to find the location of the target but also show the routes between two stations. This system is user friendly, easily installable, easily accessible and can be used for various other purposes. After installation system will

locate destination by the use of this application which uses Google map service. The system allows to track the target anytime and anywhere in any weather conditions. GPS is a technology that is used in a huge of applications for tracking the position. One of the applications is tracking your vehicle and keeps regular monitoring on them. It also includes the application that provides you exact location of destination. This system enables us to track the route to destination in any weather conditions. This system uses GPS and GSM technologies.

2. Proposed Plan

The main functionality of My Places is to find a route to destination or target place of the user and show it in real time on a user-selected map. Thereby it stores the geographical coordinates of the target place and the user on a local database and it is able to calculate useful statistics like distance to be travelled and time needed to travel that distance. Using the GPS, the current location of user is received and the route from the users current location to destination is displayed on a map and on a built-in compass. The user then can select the place of interest from the drop down menu and then the user will be shown the route to that particular place.

2.1. Problem Statement

The basic reason about choosing this topic is to make the human works much easier. User can find the nearest Places/things like ATM, Bank, Schools, and Hospitals etc. from their current location and also can reach to that location with the use of navigation. In this era everybody is to busy perspective works so the people forgot what works should be they done when he/she reached to the particular location. Our app is very helpful to such people to remind such thing when he/she reached to that the particular location.

2.2. Architecture

The main process that happens in this application is the interaction between the user and the Google place API. API stands for Application Program Interface. API is the third party which provides the web service. We have used the map fragment which tracks the location of the user using GPS tracker.
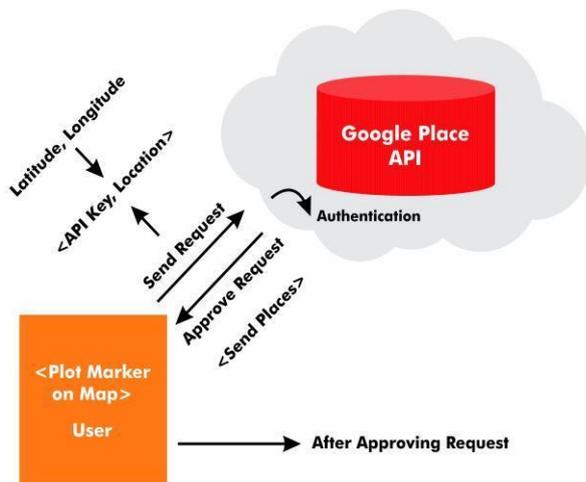
As shown in the above architecture the Google Place API is used that contain the latitude, longitude of the location and proximity radius. To use this Google Place API the authenticated API key is needed. Along with this API key we send the URL in the request. If the API key is valid or authenticate the Google Place API accepts the request and then within the given proximity radius its shows the results(suppose within 5000proximity radius there are 10 hospitals the Google Place API will show all the 10 hospitals).Then the marker plots the red marker which denotes the destination. After selecting the destination the route will be shown from the users current location.

3. CONCLUSIONS

This Paper is on Android application My Place that provides the route to user for their destination. The application also shows the small information about the destination. The application also provides one to one mapping .The user gets the location of their destination from the Google place API. The user sends the request to the Google Place API then after authenticating API key the Google place API accepts the request.

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