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Geographical Profiling of Routes Based on Security and Surveillance

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ABSTRACT

The Geographical profiling is android based application and it is designed to provide a platform for users to explore new places and they can get clear view of the places whether it is in high level zone or low-level zone or it is in medium level. The application divided into two modules, the admin module allows to create a record on a particular area whether the area is in crime zone area or not. The Second Module is User Where they can sign up and login and Enter Source and Destination and View in between Location. This application is mainly used to get clear view of aerial records where the user can get view of the places by showing red, orange and green colored marks.

Keywords- **Android, Mobile technology, Location safety aware, crime detection, crime reporting.**

I. INTRODUCTION

Today's world is all about technology and at present, in general tourists and travelers waste a lot of time planning and deciding their trips to achieve maximum satisfaction. In this context, this application aims to identify the main computing needs to support the improvement of tourist point of promotion for the traveler, by the means of an easy-to-use mobile application proposal.

Normally, most travelers like to visit the safest spots as well as safest place to view. This system is basically used to help a traveler new to the city or anyone who wants to explore a city within a specific location. The user is supposed to enter his/her source and destination. Once the account has been created, the user can choose the location manually or let the system detect his/her current location as the starting and ending point. Then, the start and end time of the locations must be specified by the user. Since all the trips of a user will be stored, he/she can also view the previous record of the places. Smart City Traveler as the name indicates, smartly makes its way in analyzing users' restricting them from the high-level zones.

II. EXISTING SYSTEM

In current situation there are many mobile applications for crime reporting. In recent time Tamil Nadu police released an application called digicam that is used to report the crimes of theft of mobiles and two wheeler. But the main problem with the existing system is that the application is only limited to some features and does not satisfy all the end users. The main problem is that it doesn't support crime prevention and is only limited to crime reporting. At present Information age, it is not enough just to report the crime but must also recognize the crime locations.

III. PROPOSED SYSTEM

In this paper we have proposed an android application for the user that the user can get clear view of travelling from one place to another place where he can travel by entering source and destination then he can view the crime levels of the area. These data are added and maintained by admin

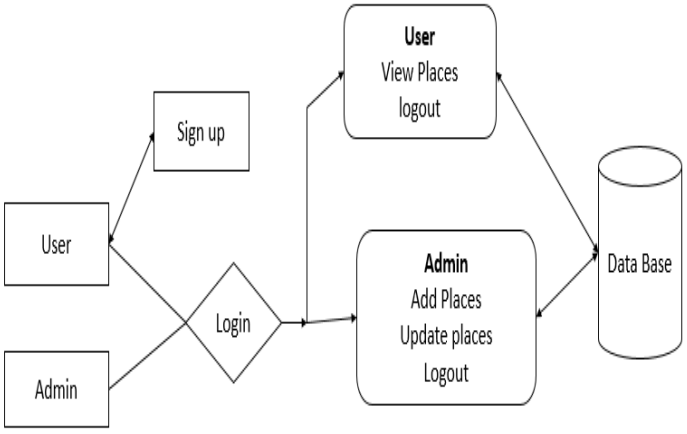

Fig:Block diagram

IV. SOFTWARE USED

5.1. Android Studio

Android Studio is the official integrated development environment (IDE) for Google's Android operating system, built on JetBrains' IntelliJ IDEA software and designed specifically for Android development. It is available for download on Windows, macOS and Linux based operating systems. It is a replacement for the Eclipse Android Development Tools (ADT)as the primary IDE for native Android application development

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Android Studio supports all the same programming languages of IntelliJ (and CLion) e.g. Java, C++, and more with extensions, such as Go and Android Studio 3.0 or later supports Kotlin and "Java 7 language features and a subset of Java 8 language features that vary by platform version."

The first stable build was released in December 2014, starting from version 1.0. The current stable version is 3.3, which was released in January 2019.

V. PROGRAM OUTCOME

5.1. Module 1:Authentication

Registration: Registration will be done by user through his or her mobile phone. User will fill the details of Full Name, Phone/Mobile number, Email-Id, Password. Then all of the user information will be added to the Database.

Login: After registration, user can login into system using username and password. The username will be user's email-id provided at the time of registration process and the password is also the same that is given by the user at the registration process. Afterwards user can change the password and update their profile.

5.2. Module 2:Crime Report And Information

Search Crime: The user will be able to search the crimes based on the selected location which can be selected from the list of places.And the use of interactive google map will be able to easily display the crimes.And the users can also view the crimes based on the categories of crime(Eg: kidnap,rape,murder etc).

Crime reporting and complaining: The user can also register complaint through this module and they can also withdraw their complaint .since all user information will be stored in database the crime complaints can be easily notified to the police officials who can use it if user sees some crime or got stuck himself.

Logout: At the end, user can simply logout just by clicking logout button provided on the page.

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VI. CONCLUSION

Since travelling is one of the important aspect today, it is very necessary that proper planning need to be done beforehand in terms of safety management. Most people without using the latest technology waste a lot of time just planning trips unsafe. So, the proposed system an application like Geographical profiling application are really helps tourists to utilize their precious time to the fullest and also enjoy their trip at the same time.

VII. FUTURE ENHANCEMENT

- The only challenge to this proposed system is that the user's internet and the GPS should be activated 24x7.Some more security algorithm can be implemented to secure the data.
- The posted crime takes time to verify by local police as still it is a manual process so solution to this problem is that we can take help of video surveillance system to verify the posted crime place and the current situation of that place.
- And more algorithms can be used to predict the crimes that can take place at the particular location.

REFERENCES

[1]. Application for e-Tourism: Intelligent Mobile Tourist Guide; Alexander Smirnov; Alexey Kashevnik; Andrew Ponomarev; Maksim Shchekotov; Kirill Kulakov, 16 July 2015

[2]. SMART CITY TRAVELLER; Harshil Joshi, Shivani Chavan, Rinkal Patel, Abdullah Patel, May - 2019

[3]. TOURGURU: Tour Guide Mobile Application for Tourists, M.S.B.W.T.M.P.S.B. Thennakoon; R.D.T.N. Rajarathna; S.P.B. Jayawickrama; M.P.D.S.M. Kumara, 07 December 2019

[4]. Mobile Application for Tourist's Personal Travelling Management in Kuala Lumpur; Nur Huda Mat Yusoff; Arulselvi Isvaramurty; Husniza Razalli, 07 October 2019

[5]. Intelligent mobile based tourist assistance system; Rittwik Sood. 09 April 2017