

Smart Traffic App Using Android Phone

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ABSTRACT

There are becomes more and more serious issues of traffic offense and congestion in city because of the problems of traffic accidents as the increment of the city vehicles. However, there are limited traffic police, so traffic patrol and working at regular places are the former ways of working that cannot effectively solve the problems above any more. We designed and realized the mobile office system through the mobility characteristic of the traffic police working and the analysis of the large working scale, which could effectively solve the jam problem by learning the traffic jam Situation. the information of the traffics which deal with the traffic accidents and traffic offense can effectively collect by The system which could greatly helpful for improving the work efficiency of the traffic police.

Keyword : - Android, Mobile Office System, Traffic jam situation, Vehicle information

1. Introduction

In early days, for travelling and transportation there are approximately 55% peoples are road ways. Today everyone has his own vehicle. The traffic on the road is automatically get increased as the popularity of the vehicle increases. Due to which year by year, the offences are also being increased. Most of the times it has been observed that people get rid of paying the actual fine by giving bribes to the road traffic officers. Also, the problems of traffic accidents, traffic offense and congestion in city become more and more serious with the increase of the city vehicles. However, working at regular places and traffic patrol are the former ways of working which cannot effectively solve the problems above because, there are limited number of the traffic police.

The proposed system will be developed as an android app that can be installed on any android supported handset and thus can be used by all the traffic officers. There will be no need of carrying the laptops or heavy non portable systems. The proposed system will be not only used by public but also road traffic officers.

The real time controlling system is the most important part of this system, where the entries made using the app will be stored at the back end in real time Therefore the traffic police are urgent to require a mobile office system which is arrived and used conveniently as well as can solve the practical problems.

Checking the driving license, searching and collecting the data information of the related people and vehicles in the working spot can be done using this system. The research realized the functions of the location and searching real-time traffic information through analyzing the system architecture, by making use of the Google Map data, and by using the Google Weather API and the internet weather XML, it realized the functions of the searching real-time weather information and weather forecast. Moreover, it realized the functions of the data importing, searching and modifying through the SQLite database.

1.1 Purpose

There is a need to shift all the government activities towards the digitized world as now the world has entirely digitized. Also most of the government activities being conducted fall prey to corruption. So for avoiding such things the proposed system aims to design and implement and application for one such government body of Road Traffic Office. Most of the times it has been observed that people get rid of paying the actual fine by giving bribes to the road traffic officers. Also, the issues like congestion, traffic offense and traffic accidents in city become increasing and more serious because of the vehicles increasing ratio. However, traffic patrol and working at regular places are the former ways of working which cannot effectively solve the above problems anymore because there are limited traffic police. Through the analysis of mobility characteristic of the traffic police working and the large working scale the research designed and realized the mobile office system, which could effectively solve the traffic jam problem. The information of the traffics which deal with the traffic accidents and traffic offense can effectively collect the system which could greatly improve the work efficiency of the traffic police. The proposed system focuses on the problems faced by public. There is a necessary to shift all the government activities towards the digitized world as the world has entirely digitized now. Also most of the government activities being conducted fall prey to corruption. So to avoid such things the proposed system aims to design and implement and application for one such government body of Road Traffic Office. Most of the times it has been observed that people get rid of paying the actual fine by giving bribes to the road traffic officers. Also, the issues like congestion, traffic offense and traffic accidents in city become increasing and more serious because of the vehicles increasing ratio. However, traffic patrol and working at regular places are the former ways of working which cannot effectively solve the above problems anymore because there are limited traffic police. Through the analysis of mobility characteristic of the traffic police working and the large working scale the research designed and realized the mobile office system, which could effectively solve the traffic jam problem. The information of the traffics which deal with the traffic accidents and traffic offense can effectively collect the system which could greatly improve the work efficiency of the traffic police. The proposed system focuses on the problems faced by public as well as the road traffic officers as well as the road traffic officers.

2. Existing System

Having a distributed system and multi headed system, the process of controlling road traffic violation and the entire traffic system has a very outdated procedure where there are lots of pitfalls where the system can become victim of the harmful cancer named as corruption.

An Application for public use in knowing traffic rules and information regarding various signage information and fines against the offence has been launched, but there are again a very few facilities that are provided as mentioned below:

1. User Manual for public
2. General Traffic rules
3. Rule violation and fines against offence
4. My Towed vehicle information
5. Current Traffic and etc.

The major disadvantage here is that there is no provision for avoiding the various frauds that can be corporates while on roads.

Thus there is a need to develop a system that will benefit common people as well as help traffic officers to manage the system centrally and have a track of the entire records throughout the city.

3. Proposed System

The system which will be designed to develop an application which is used to solve the traffic problems. This can be made use for checking the driving license, searching and collecting the data information of the related people and vehicles in the working spot. The traffic offenses which are related with road and vehicles are increasing year by year with the development of the construction of traffic road and the popularity of the vehicles.

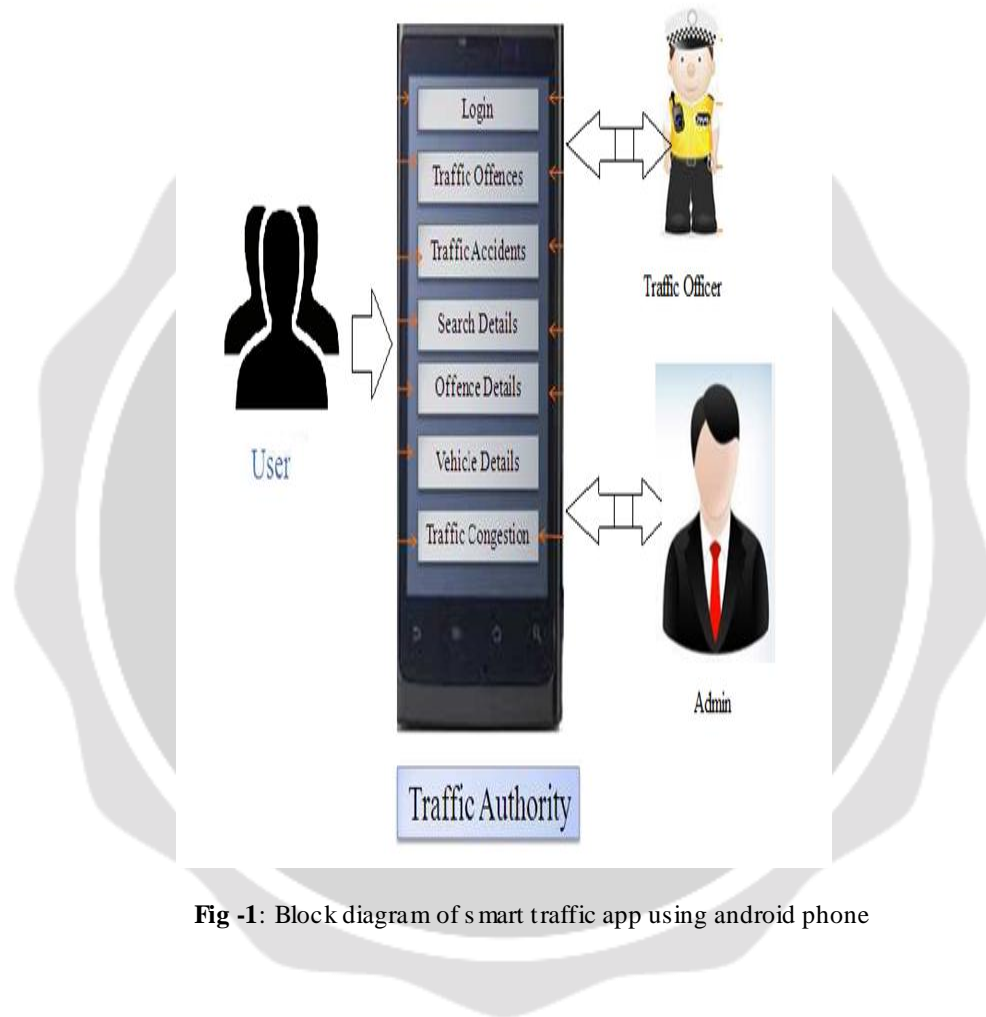


Fig -1: Block diagram of smart traffic app using android phone

4. CONCLUSIONS

With the improvement of the condition of the wireless network, mobile devices and so on, the applications of the traffic information have become more and more popular from search of the mobile data to dealing with mobile professional work. Through analyzing the system architecture, the research realized the functions of the location and searching real-time traffic information by making use of the Google Map data, and by using the Google Weather API and the internet weather XML, it realized the functions of the searching real-time weather information and

weather forecast. Moreover, it realized the functions of the data importing, searching and modifying through the SQLite database.

The traffic police mobile office system based on Android can easily realize the communicating between traffic police working information and the traffic information, which offers a full temporal and spatial office and improves the efficiency of the working of the traffic police. It also can get the real-time traffic information, which meets the information requirement of the working and provides an information source for managing and easing the traffic, improving the efficiency of the traffic management and service. Finally, it realizes the communication between traffic police and other kinds of police, which is very important for the security of the society.

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