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License Enquiry System for Traffic Police using Mobile Application

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Abstract:- In our project is license enquiry system for traffic police using mobile application. Regional transport office (RTO) is the organization of Indian government responsible for maintaining a database of vehicles for Pan India. The RTO issues driving licenses and maintain the collection of vehicle excise duty and sells personalized registrations. So in this System the Main concept is designed a mobile Application for traffic police. It is mandatory that all drivers must and should produce the DL, insurance, RC copy failing which they should pay penalty in case caught by traffic police. According to Motor act, no person shall drive the vehicle without proper documentation; a driving person should carry Registration Certificate, Insurance Certificate & license. If they not produce those documents the traffic police collect their details with photo and send those data to RTO office and traffic police database. And this system sends an alert SMS to those drivers. And finally they will renewal the license or apply for new license. Through this system we can also find the theft vehicles.

Keyword:- *Android studio, Mobile device.*

I. INTRODUCTION

Regional transport office (RTO) is the organization of Indian government responsible for maintaining a database of vehicles for Pan India. The RTO issues driving licenses and maintain the collection of vehicle excise duty and sells personalized registrations. Now-a-days some people cannot have driving license in urban areas. And then some person does not having driving license and not renewed their license. So lot of problems assign in travelling time. So in this System the Main concept is to design and develop a mobile Application for traffic police. It is mandatory that all drivers must and should produce the DL, insurance, RC copy failing which they should pay penalty in case caught by traffic police. According to Motor act, no person shall drive the vehicle without proper documentation; a driving person should carry Registration Certificate, Insurance Certificate & license. If they not produce those documents the traffic police collect their details with photo and send those data to RTO office and traffic police database. And this system sends an alert SMS to those drivers. And finally they will renewal the license or apply for new license. Through this system we can also find the theft vehicles.

II. LITERATURE SURVEY

A. A Web Base Android Application Development System [2]:

In this concept, many people download applications from App Store. Although there are many choice in the exist APP Store, users still need application designed for their special requirement. To meet this situation, there are many tools to develop an application for them. But most of development tools are not easy to use without strict training. They are different from traditional programming tools, such as write Java code by eclipse, VB code by Visual Studio. This idea to make the android application designing flow more friendly to the users.

B. Research on Development of Android Applications [1]:

Application framework defined the common structure of programs in the specific domain. Android is a comprehensive operating environment that based on Linux V2.6 kernel, it is also a layered system, the architecture of Android system. Applications layer is the site of all Android applications including an email client, SMS program, maps, browser, contacts, and others. All applications are written using the Java programming language. This concept says open and free mobile device platform.

C. Android Application Development & Its Security [3]:

Android is a mobile operating system (OS) based on the Linux kernel and currently developed by Google. With a user interface based on direct manipulation, Android is designed primarily for touch screen mobile devices such as smart phones and tablet computers. Android is popular with technology companies which require a ready-made, low-cost and customizable operating system for high-tech devices. The android application provides a full overview how to save the data in the application, along with other operations as such sorting, searching, changing themes.

III. OBJECTIVES

- The main goal of project is convert manual into mobile application process.
- To identify the non-license drivers and renew the expiry license.
- To create platform to apply the license newly for non-license drivers.
- To identity the theft vehicles and to take a driver's photo in camera using the mobile application.
- To create SMS alert to those drivers.

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IV. METHODOLOGY

This proposed project is mainly used for RTO and Traffic police department. Traffic police to collect a data from that person and then stored instantly. That data can stored in RTO database and also stored in police database. T9hey select the any option to entry the module and then collect the details in the person and his vehicle details also. And then proceeding the details from the RTO database instantly. Also that an alert message viva to SMS using command option.

In my application have 3 modules:
Login.
Vehicle Detail& Driver(With Photo).
Alert Message

A. Login

Login page used for traffic controller because each and every traffic police having USER ID and PASSWORD. Login page used for traffic police collecting the license details in per day.

B. Vehicles & Driver Details

In this module having vehicles & driver details. They are

- Vehicle name.
- Vehicle model.
- Vehicle type.
- Vehicle number.
- Vehicle color.
- Drivers name.
- Drivers DOB.
- Place
- Occupation.
- License number.
- Camera (take a driver's photo)

C. Alert Message

They select the any option to entry the module and then collect the details in the person and his vehicle details also. And then proceeding the details from the RTO database instantly. Also that an alert message viva to SMS using command option.

D. Flow Diagram

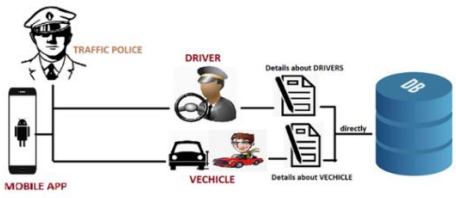

Fig 1. Flow diagram

Workflow of license enquiry system for traffic police using mobile application.

V. CONCLUSION

Finally they will renewal the license or apply for new license. Through this system we can also find the theft vehicles.

Fig 2. photo capture

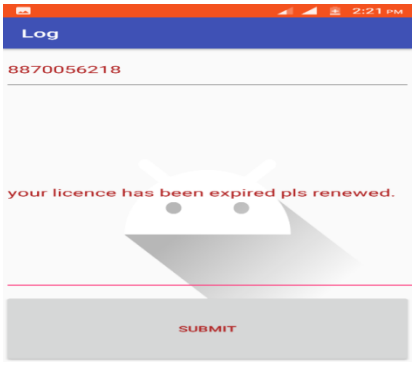

Fig 3:- Alert message

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