

Traffic System Management

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Abstract— Now a day's population has become an important factor to consider as a result the number of vehicles grows by increasing vehicle registration issues, license registration, emission testing and insurance for RTO departments and verification of vehicle documents. RTO employees who have a lot of workload to perform registration, licensing, transfer, etc., which requires a lot of paperwork. As a result, people cannot do things at the right time, which is the loss of time and energy. Likewise, the owner of the vehicle sometimes forgets to carry the license and forgets the insurance at the time of the investigation.

Key words: Traffic System Management, RTO

This project targets to store the information related to vehicle such as insurance, license, emission testing details, personal details of the applier and registration date.

Traffic System Management would be installed in Android phones of traffic police. And it will provide input fields to traffic police to enter the vehicle number as well as license number in order to retrieve the information related to vehicle and license from database. In case of civil police, a web page will be provided where he can update the stolen status of the vehicle to database in order to catch the thief. This application also generates fine and stolen status of vehicle. Hence it is completely service oriented application.

I. INTRODUCTION

Regional Transport Office (RTO) is an Indian government bureau which is responsible for the registration of vehicles and issue of Driver's License in India. RTO management will be having lot of work regarding registration of vehicles and issue of driver's license. Similarly the vehicle owner sometimes forgets to carry the license, and forgets the insurance at the time of enquiry. This paper proposed an approach to solve such problems that is by storing all the information related to vehicle and driver at database by RTO administrator. This application is a service oriented Android application specifically designed for transport department which allows efficiently managing and verifying the documents related to vehicle and license. This project targets to store the information related to vehicle such as insurance, license, emission testing details, personal details of the applier and registration date. This application would be installed in Android phones of traffic police. And it will provide input fields to traffic police to enter the vehicle number as well as license number in order to retrieve the information related to vehicle and license from database. In case of civil police, a web page will be provided where he can update the stolen status of the vehicle to database in order to catch the thief. This application also generates fine and stolen status of vehicle. Hence it is completely service oriented application.

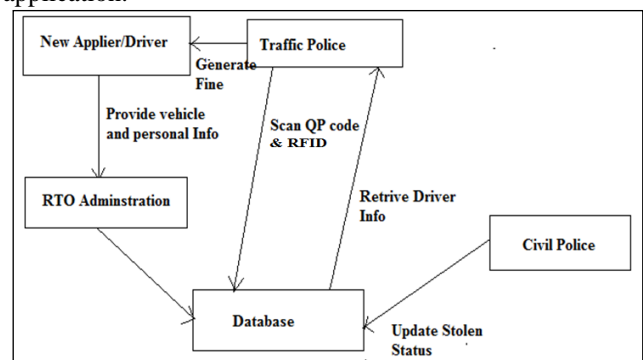
II. PROPOSED SYSTEM

In the System, Traffic Management system 4 modules User, RTO Admin, Traffic Police, Civil Police. Regional Transport Office (RTO) is an Indian government bureau which is responsible for the registration of vehicles and issue of Driver's License in India. RTO management will be having lot of work regarding registration of vehicles and issue of driver's license. Similarly the vehicle owner sometimes forgets to carry the license, and forgets the insurance at the time of enquiry. This paper proposed an approach to solve such problems that is by storing all the information related to vehicle and driver at database by RTO administrated.

Traffic System Management specifically designed for transport department which allows efficiently managing and verifying the documents related to vehicle and license.

III. DETAILED DESIGN DOCUMENT USING

Transport Office (RTO) is an Indian government bureau which is responsible for the registration of vehicles and issue of Driver's License in India. RTO management will be having lot of work regarding registration of vehicles and issue of driver's license. Similarly the vehicle owner sometimes Regional forgets to carry the license, and forgets the insurance at the time of enquiry. This paper proposed an approach to solve such problems that is by storing all the information related to vehicle and driver at database by RTO administrator. This application is a service oriented Android application specifically designed for transport department which allows efficiently managing and verifying the documents related to vehicle and license. This project targets to store the information related to vehicle such as insurance, license, emission testing details, personal details of the applier and registration date. This application would be installed in Android phones of traffic police. And it will provide input fields to traffic police to enter the vehicle number as well as license number in order to retrieve the information related to vehicle and license from database. In case of civil police, a web page will be provided where he can update the stolen status of the vehicle to database in order to catch the thief. This application also generates fine and stolen status of vehicle. Hence it is completely service oriented application.



IV. ADVANTAGES

- 1) User is a person who gets the full benefits of this applications.

- 2) User passive RFID tags.
- 3) This system solve traffic jam which is one of the current issues of both developing and developed countries.
- 4) System helps government to better regulate traffic operation and reduce associated costs.
- 5) It gives complete knowledge of how to start working on eclipse and develop an application and get it run emulator.

V. LIMITATIONS

- 1) Time consuming
- 2) Less integrity
- 3) Lack in data confidentiality
- 4) Delegation problem
- 5) Tag generation problem
- 6) Sometimes it occurs sensing problem.

VI. FUTURE SCOPE

- The Future scope of project is to completely remove the paper work.
- In future we would link a Paytm to it, so that driver would able to pay the fine easily through Patym.
- To improve the security of the application in future.
- The driver will surely install this application to update their Required document, so that it will make their work easy whenever necessary
- It will help to manage the Traffic Easily

VII. CONCLUSION

We design "Traffic Management System Using QR code and RFID.", effectively verifies documents related to vehicle and license. This system introduces facility for RTO officers to perform verification of license and vehicle documents. It also helps the RTO officials to maintain records systematically and reduces a lot of paper work and manual efforts. Hence drivers are totally independent of vehicle related documents. The driver's data will be fetched from RTO server.

The proposed system consists of four components:

- Driver which Provide Vehicle and personal information and get QR code and RFID
- RTO administrator which stores all the information related to vehicle and driver and generates QR code and RFID.
- Traffic police scan the QR code and RFID and retrieve vehicle and license information .Also check user past details i.e. how many times he/she perform unauthorized events (like break the traffic rules),according to that generate fine.
- Civil police plays an important role, since a web page will be provided to civil police in order to update the stolen status to the RTO database.
- Our system also generate message when license get expire.

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