

Smart System for Vehicle User and Traffic Controller

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ABSTRACT

RTO system proposed to install a system which it make interface in existing system with more efficient & maximum accuracy “Smart system for vehicle owner and traffic controller” has been designed for the process of registration of vehicle and issuing driving license process. System can make the daily activities efficient and providing the fast response to store and retrieve information. It has service provider in which they have all information about location & vehicle. If they receive some message or alerting some then it will response to those message by providing services.

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I. INTRODUCTION

In this project we have different modules in which they store different information & having different service. In rto it has process for registration of vehicle, their documents data all are stored in database in which they access from here. In maintenance or service provider they have whole document & information about location in which vehicle owner who face problem, they give service to them. This new system also provides feature for detection of lost vehicle. Administrator is power user. He has the power to verify the data entered by the user, processing of data and provide appropriate solutions. Any person who has been authorized by the administrator can use this system. An authorized user should have a user name and password to access detailed information from the site excluding for accessing general information in shared, public pages. User is the person who gets the all benefits of this application. Registration of vehicle through online gives unique id no to all vehicles.

Issue of information about license, which include application forms, demo of learner's license test and other information. It help's traffic police for tracing particular vehicle. It helps for public awareness. Separate account for the license holders and police. Provide mail alerts for users about license expiry and also registration of complaint.the vehicle owner uploads vehicle document & it will be stored in the database. Traffic police will have all lost vehicle's

record then it will detect the vehicle, if their information & lost vehicle information matches then it will be verified and the vehicle owner will get back the lost vehicle.

GOALS AND OBJECTIVES

- 1) No need to carry vehicle documents all the time.
- 2) The maintenance facility should provided to particular vehicle owner from Available service provider.
- 3) To generate vehicle theft related info

II. LITERATURE SURVEY

a. Roxanne hawi. George okeyo (2015)techniques for smart traffic control: an in-depth review

This paper is a review on the motivations behind the emergence of STCS and the different types of these systems in use today for road traffic management. They include fuzzy expert systems (FES), artificial neural networks (ANN)and wireless sensor networks (WSN). The paper cites and analyses a number of successfully tested and implemented STCS.

b. Ankur Mokal, Snehal Pawar, Smart Vehicle Management(2015)

The project is composed of two separate units: zone status transmitter unit and receiver (speed display and control) unit. Once the information is received from the zones, the vehicles embedded unit automatically alerts the driver, to reduce the speed according to the zone, it waits for few seconds, and otherwise vehicles SDC unit automatically reduces the speed.

c. Osigwe Chinyere, oladipo Francisca. (2011) DesignAnd Simulation Of An Intelligent Traffic.

A novel methodology was described in this work for the design and implementation of the intelligent traffic lights control system. This methodology was obtained as a hybrid of two standard methodologies:

The Structured System Analysis and Design Methodology (SSADM) and the Fuzzy Based Design Methodology . The systems study and preliminary design was carried out using the Structured System Analysis and Design Methodology and it replaced the_rst step of the Fuzzy Based Design Methodology Control System.

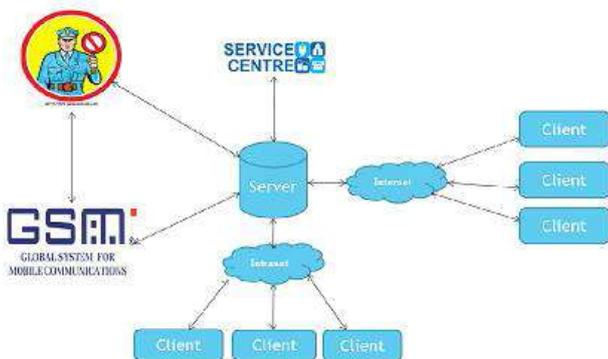
d. Waqas Ahmed, Syed Hasnain Ali, Smart Traffic Signal and Congestion Control System(2012).

The traffic congestion can also be caused by large Red light delays, etc. The delay of respective light is hard coded in the traffic light and it is not dependent on traffic. Therefore for simulating and optimizing traffic control to better accommodate this increasing demand is arises. In this project we discussed the optimization of traffic light controller in a Metropolitan City using microcontroller and Digital Display. The system tries to reduce possibilities of traffic jams, caused by traffic lights, to an extent and give ease to drivers to avoid congested path.

III. SYSTEM ARCHITECTURE

There are three modules in this project:

- 1. REGISTRATION
- 2. ANTI THEFT
- 3. MAINTENANCE



1. Registration

Registration of motor vehicle on web-portal.

User has a safe user id login process User friendly environment.



2. Anti Theft

In this model any device or method used to prevent or deter the unauthorized appropriation of vehicles assured way of gaining back users lost vehicle.



3. Maintenance

All nearby service centers information as well service is accessible Users can launch their requirements.





APPLICATIONS :

1. Online document upload.
2. Issue of informations about vehicle.
3. It helps traffic police for tracing particular vehicles.
4. It helps for public awareness. Separate account for the license holders and police.

IV. CONCLUSION

“Smart system for vehicle owner and traffic controller” has been designed to automate the process of registration of vehicle and issuing driving license process. System can make the daily activities efficient and providing the fast response to store and retrieve information. The main aim of the project is to design innovative software, which deals with the rto management system. The motto of the project is to simplify the job of the administrative people and to render a user friendly package.

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