ABSTRACT:

As the number of vehicles are getting increased on the roads and corruption is prevailing in our society the use of correct automated services with correct and authoritative control over those system is necessary nowadays. The idea of developing SMART-E-RTO management system, Automation of Regional Transport Office is of great use. As number of vehicles are growing with increasing population at the same time the issues in registration of new vehicle, driving license registration, etc are getting increased. Because of the increased use of two wheelers and four wheelers in everyone’s lives the RTO employees are having a burden of paper work in issuing new registrations to vehicles, driving license registration etc, At the same time the customer also faces so many issues like late arrival of their documents, waiting in long ques etc. Therefore all these problems can be solved by the use of an automated system. This paper presents basically how to automate the process of registration certificate generation.

Keywords: RTO, Registration Certificate automated registration, Regional Transport Office.

[1] INTRODUCTION

Today when someone buys a new vehicle – four wheeler or two wheeler the registration certificate and insurance applications are the duties of the dealer itself. To complete all the verifications and finally applying for both of the important documents dealer of the showroom from where the vehicle is bought is seek responsible. For the registration certificate an official from regional transport office daily visits the dealer showroom to collect the information of every vehicle sold...
and also taking the chassis number along with him on a piece of paper by scribbling it from a pencil (done for security purposes). Then this official submits all the processed documents to the regional transport office (RTO) and there after processing everything the registration certificate is generated and send to the owner home by the method of post. The whole process is a tedious job, involves too much paper work, and is time consuming. Therefore there is a strong need to automate the process by use of technology. We all know existing RTO office work is how much lengthy as well as very time consuming process. In many villages, there is only one day camp of RTO and the people who want license they should remain present on that day if they missed that day they have to go to the district RTO office. So, it is a disadvantage because that may be not able to go or he/she having worked on that day. So that here we developing one web application which provides easies and efficient way for RTO works like making driving license, the registration number of the vehicle etc. In many cases, we found that RTO office works gets complete through the third party called agent. When a person goes to the RTO office for a driving license, vehicle passing, and registration number of the vehicle then a person go through the agent and agent will complete person work by taking a lot of money and that person is unaware of all this system. so using our web application we are somewhere to help to reduce corruption. This system is also helpful for RTO officials also. The RTO officials can even use this system for controlling the culprits. In this system we could have, the complete details of the driving license holders. Therefore by the use of this automation system easy generation of documents will be possible and some kind of penalties can be imposed on fake registration plates, if any, would be detected immediately.

[2] LITERATURE SURVEY

In the paper titled E-RTO Management System published in journal of Engineering and Research and Technology, Volume 2 issue 7 of July 2013, the authors have presented how to maintain the backend database by creating, updating, deleting the information on a mobile application.

[3] PROPOSED SYSTEM

In the proposed system the dealers of the showroom will send a database on the daily basis to the regional transport office, this database will include all the details of the purchaser of the vehicle bill number of the vehicle purchased, chassis number, name of the owner, aadhaar number/ any identification number of the owner of the vehicle. Now for the application of new number / registration certificate will visit the RTO portal and there he will be directed to login form where the user needs to fill all the credentials to login which will be the bill number, chassis number, name, and any identification number which will be cross verified by the RTO database, if details would be present in there user will be authenticate and will be directed to the form 61 A – Form for the application of new registration certificate. The user will fill in all the details required over there, pay the appropriate processing fees+ fees prescribed by policies of RTO and a digitally signed registration certificate would be generated online in the form of a pdf. This registration certificate would be digitally signed by the regional transport officer and will be used as a document while travelling.
[4] SYSTEM ARCHITECTURE

[5] IMPLEMENTATION MODULES

Now let’s see some of the implementation modules of our proposed systems.

**RTO MODULE:**
1. This contains central database which contains all the information of the buyers of different vehicles, date wise and showroom wise.
2. Admin / RTO officials can access through RTO module.

**DEALER MODULE:**
Dealer will send the database of every vehicle sold and all the other details to the regional transport office on the daily basis.

**USER MODULE/USER-INTERFACE:**
User will login through the credentials in the system and hence fill the necessary forms, pay the appropriate fees and hence get his registration certificate.

[6] ADVANTAGES
1. Time efficient method.
2. Registration certificate would be generated online, so it will be safe and can be downloaded again if lost.
3. Relaxation from the paper work.
4. No need of an official from RTO to visit the dealer.
5. Owner need not visit the RTO to apply for the registration certificate.
6. Corruption will not prevail.
[7] CONCLUSION

The RTO management system which is proposed in this report can be an effective tool which will save a lot of time & money of common people. The main objective behind developing this system is to automate the process of vehicle registration number so that a person can generate a registration number for his/her new vehicle at home. This project will be successfully implemented via using technologies like Servlet, JSP, JDBC, HTML, CSS, MVC architecture etc. The database which is going to be used is MySQL & the project contains two database's namely

- Showroom dealer database &
- RTO database.

This report attempts to summarize what is the project all about, technologies used, databases being used, the main cause for which the system is to be developed and the brief of technicalities which are required to make the project functional.

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