

## A Study on Vehicle License Information Management and Processing System

S.Vijay<sup>1</sup>, A.Ganesan<sup>2</sup>, Dr.N.Revathy<sup>3</sup>, P.Akshay Das<sup>4</sup>

<sup>1,2,3,4</sup> PG and Research Department of Computer Applications, Hindusthan College of Arts and Science,  
Coimbatore, India

Corresponding Author: S.Vijay

---

**Abstract :** Vehicle license Information processing System is an online information source developed for Road Transport Authority to facilitate the users in applying for various licenses and registrations. This tool has been designed to facilitate the flow of information within the organization. Provide the facility of applying licenses online, insurance of permanent license, tax RTO.

In the Previous System, it is not efficient in performing office work in RTO services, It includes much manual process and time consuming, It is not user friendly, Maintains local data base. It is not Generating Accurate Reports.

The Existing system of RTO services has been is usage for two years. The existing system is not giving accurate results while doing transactions. It doesn't provide security, anyone enter into the system and can do their own transactions. It is not flexible in generating reports and many manual processes are made computerized.

To overcome the problems in the existing System a new RTO services "Road Transport Authority Information System" is proposed after study of system. The objectives of proposed system are: Ensure data integrity and security, less manpower, Generate accurate reports, accurate handling in multiple details.

**Keywords** - Software testing, Software Quality assurance, Learner's License, Tax, Insurance, LLR Registration.

---

Date of Submission: 01-10-2019

Date of acceptance: 16-10-2019

---

### I. INTRODUCTION

RTO Information System (RTO) is an online information source developed for Road Transport Authority to facilitate the users in applying for various licenses and registrations. This tool has been designed to facilitate the flow of information within the organization. RTO provides the facility of applying licenses online, insurance of permanent license, tax and receiving RTO

The System keeps track of the transactions in the RTO office. It maintains Renewal of learner's License, Renewal of permanent license Issue of learner's license, Online LLR Registration Form Issue of permanent license finally it produce printouts to payment of customers.

#### 1.1 Modules Description:

A real-time application (RTO) is an application program that functions within a time frame that the user senses as immediate or current. The latency must be less than a defined value, usually measured in seconds. Whether or not a given application qualifies as an RTO depends on the maximum length of time a defined task or set of tasks requires on a given hardware platform. The use of RTO are listed below,

##### A. New License Registration:

The user can simply for two wheeler and four wheeler license applying for new form an giving all necessary details then clicking on submit we are taken to the payment page after successful completion of applying

##### B. Renewal:

License renewal can add the holder details and can view the registration of vehicle and details issue of renewal in LLR and PL apply and details renewal of LLR and PL

##### C. Cancellation:

License shall be returned unless the holder there of has after the expiry of the period of suspension under and passed to the satisfaction of the licensing authority by which the license was issued or last renewed a fresh test of competence to drive referred to in subsection a license to drive a particular class or description of motor vehicle is cancelled or suspended under the section the driving license remains in force

**D. Reports:**

The reports system of RTO services has been in usages for two years the reports system is not giving accurate results while doing transactions it doesn't provide security anyone enter in to the system and can do their own transaction is it not flexible in generating reports and many manual processes are made computerized

**II. Study About The System**

**Existing System:**

The Existing system of RTO services has been in usage for two years. The existing system is not giving accurate results while doing transactions. It doesn't provide security, any one enter into the system and can do their own transactions. It is not flexible in generating reports. and many manual processes are made computerized.

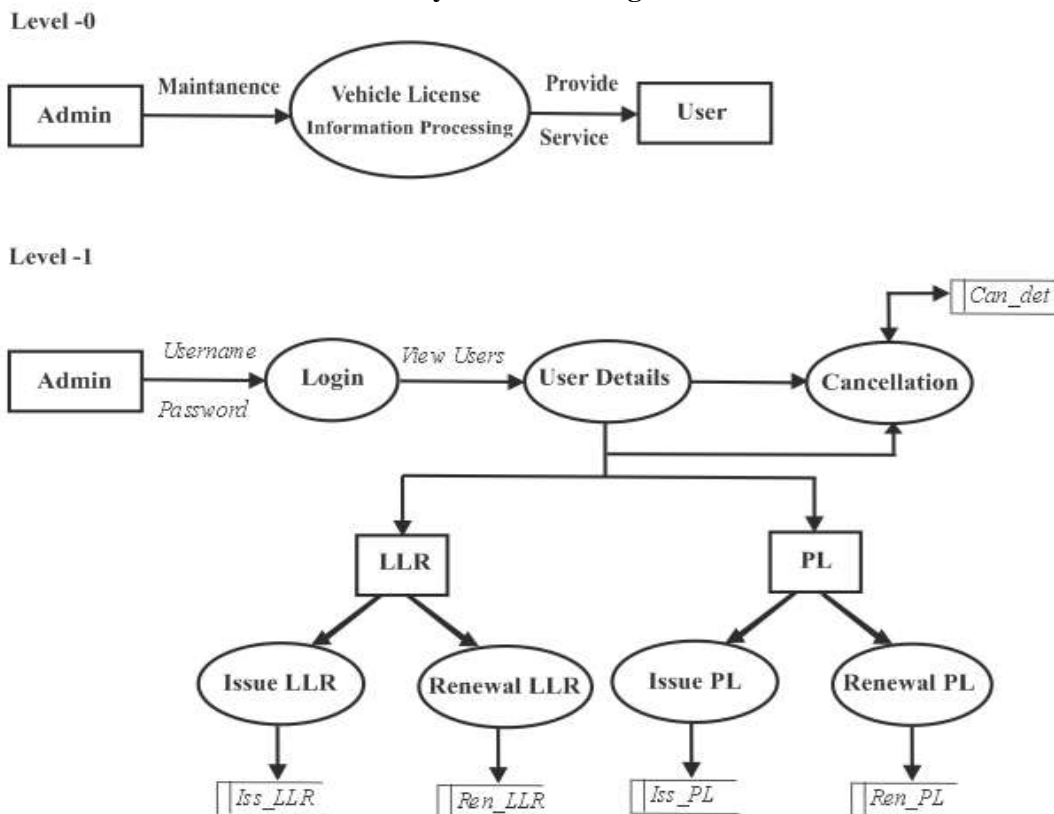
**Proposed System:**

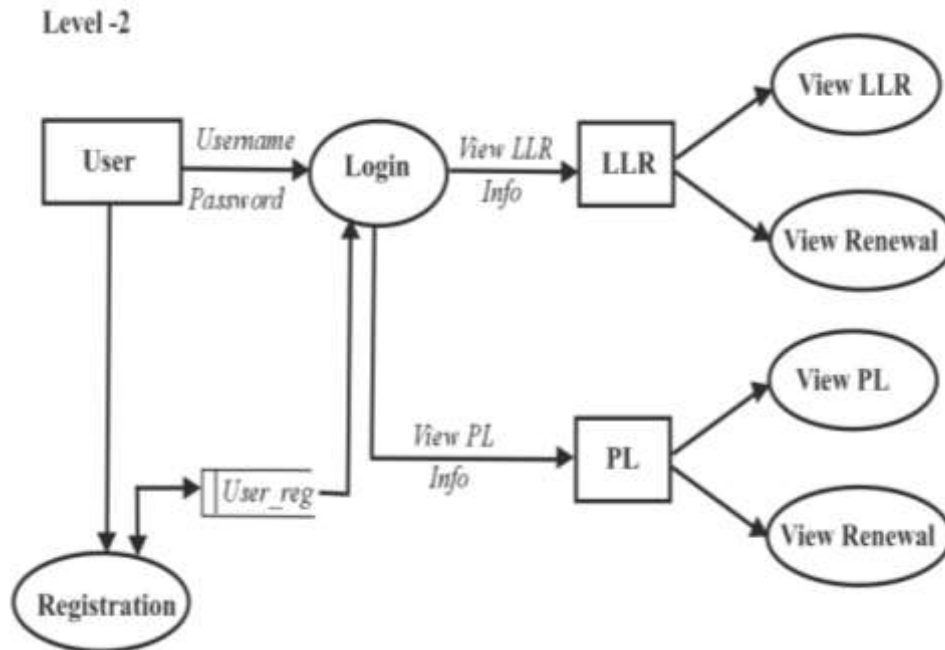
The purpose of our RTO management system is to provide a leading technological tool for the ease of RTO functions such as Registration, Learners License, and Fitness etc...It will reduce considerably the difficulties faced on existing system, with minimum error and difficulties. To overcome problems in the existing System a new RTO services "Road Transport Authority Information System" is proposed after study of system..

**Advantages:**

The RTOs form a big part of corruption in our country. Scrapping the RTOs would be a move against corruption as well. RTO are the first place where the traffic rules are broken. The officers issuing the licenses without having a thorough check leads to lot many accidents across the city. This would be an initiative towards avoiding accidents if the driving licenses are issued in a proper way.

**III. System Flow Diagram**





#### IV. System Implementation

Software testing is a critical element of software quality assurance and represents the ultimate review of specification, design and coding. In fact, testing is the one step in the software engineering process that could be viewed as destructive rather than constructive.

A strategy for software testing integrates software test case design methods into a well-planned series of steps that result in the successful construction of software. Testing is the set of activities that can be planned in advance and conducted systematically. The underlying motivation of program testing is to affirm software quality with methods that can economically and effectively apply to both strategic to both large and small-scale systems.

The software engineering process can be viewed as a spiral. Initially system engineering defines the role of software and leads to software requirement analysis where the information domain, functions, performance, constraints and validation criteria for software are established. Moving inward along the spiral, we come to design and finally to coding. To develop computer software we spiral in along streamlines that decrease the level of abstraction on each turn.

A strategy for software testing may also be viewed in the context of the spiral. Unit testing begins at the vertex of the spiral and concentrates on each unit of the software as implemented in source code. Testing progress by moving outward along the spiral to integration testing, where the focus is on the design and the construction of the software architecture. Talking another turn on outward on the spiral we encounter validation testing where requirements established as part of software requirements analysis are validated against the software that has been constructed. Finally we arrive at system testing, where the software and other system

#### Implementation Procedures

Various client side validations are used to ensure on the client side that only valid data is entered. Client side validation saves server time and load to handle invalid data. Some checks imposed are: VBScript is used to ensure those required fields are filled with suitable data only. Maximum lengths of the fields of the forms are appropriately defined.

Forms cannot be submitted without filling up the mandatory data so that manual mistakes of submitting empty fields that are mandatory can be sorted out at the client side to save the server time and load.

Tab-indexes are set according to the need and taking into account the ease of user while working with the system.

Screens -Home page



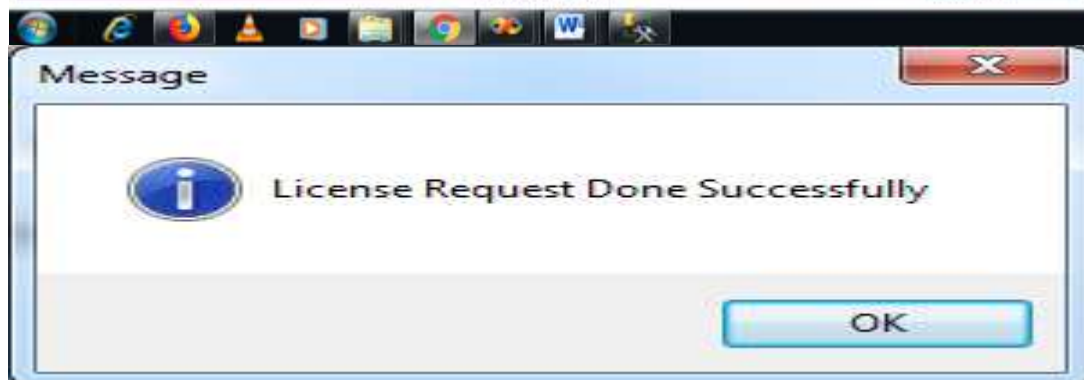
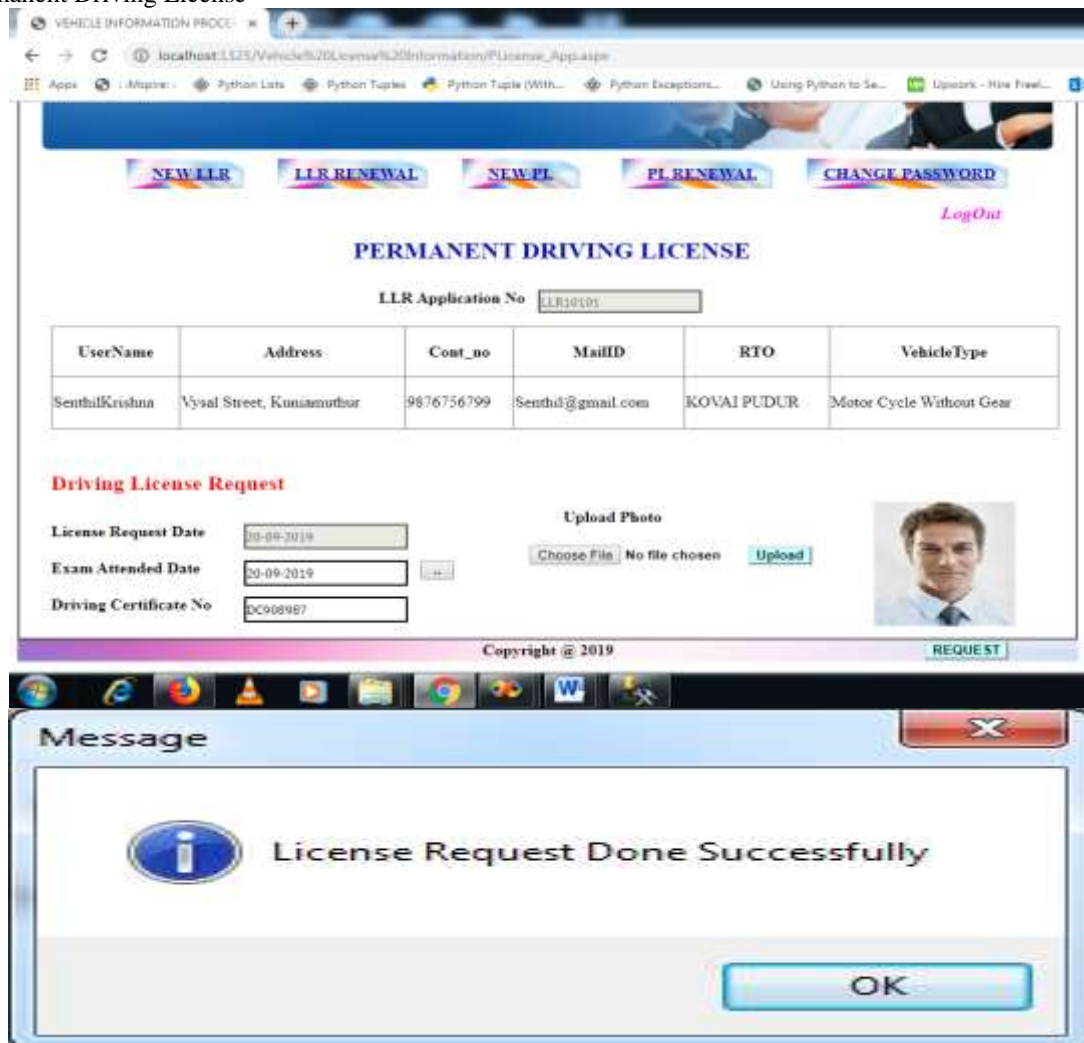
User Registration



User Login



Permanent Driving License





### Driving License Approval Details

VEHICLE INFORMATION PRICE

← → ↻ 📄 localhost:1325/Vehicle%20License%20Information/PL\_Approval.aspx

App Python Maps Python Lists Python Tuples Python Tuple (With Python Exceptions Using Python to Ge Upwork - Hire Freel

LLR REPORT LLR RENEWAL REPORT **DRIVING LICENSE APPROVAL** DL RENEWAL REPORT

**DRIVING LICENSE APPROVAL**

LLR Application No

India Driving License (TamilNadu)

Date of Issue

Driving License No TN10

Name

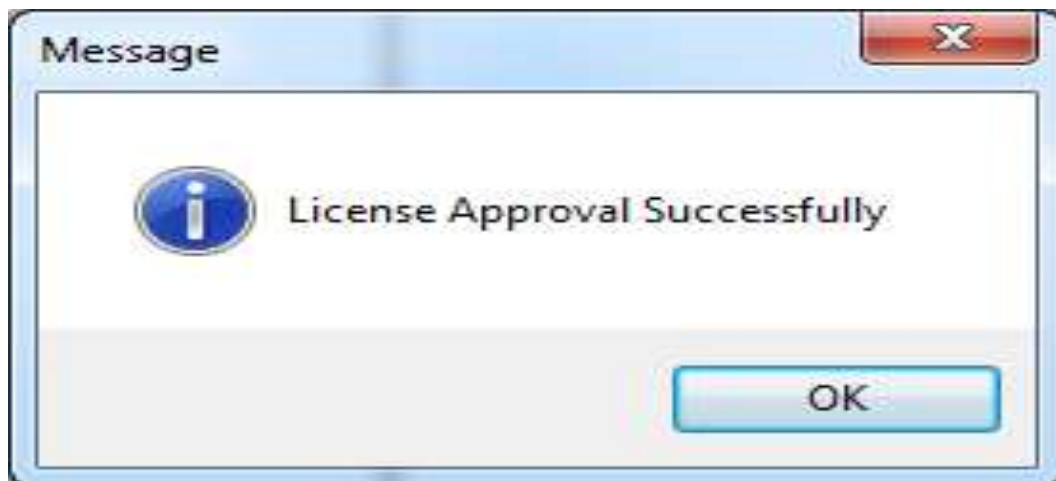
S/D/W of

Address

PIN Code  Valid Upto Date

D.O.B

Copyright © 2019



### V. Conclusion

RTO provides the facility of applying licenses online, issuance of permanent license, tax. The project has been appreciated by all the users in the organization. It is easy to use, since it uses the GUI provided in the user dialog. User friendly screens are provided. The usage of software increases the efficiency, decreases the effort It has been efficiently employed as a project management mechanism.

### VII. Scope For Future Enhancement

In this project we are providing through website only in future we can access and updates details through message also.

- \* As the system is scalable, more modules can be added as and when required.
- \* The database that is used in the system can be connected to top-most web servers so that it will be accesses by everyone.
- \* It can be browser independent so that the site can be opened in any browser.
- \* The system contents can be modified to accept new attributes for any criterion.

### References

- [1]. ManjunathS Patil, Basavaraj K Madagouda, Vinod C Desai "E-RTO Management System" in IJERT ISSN: 2278-0181 V2IS70177 Vol. 2 Issue 7, July -2013
- [2]. Juszkievicz," The use of Adobe Flex in combination with Java EE technology on the example of ticket booking system", in CAD Systems in Microelectronics (CADSM), 2011, pp. [317 –320]
- [3]. Wan-Mi Chen, Yu-Cheng Chen, "Web design and implementation for remote control", in Intelligent Control and Automation (WCICA), 2012, pp. [920 –924]

- [4]. Xiaosheng Yu, Yichang, China CAI Yi, "Design and Implementation of the Website Based on PHP & MYSQL", in E-Product E-Service and E-Entertainment (ICEEE), 2010, pp. [1 –4]
- [5]. NorahHuda Yusuf, Rosilah Hassan, "Flash Notes and Easy Electronic Software (EES): New Techniqueto Improve Digital Logic Design Learning", in International Conference on Electrical Engineering and Informatics, 2011
- [6]. [http://en.m.wikipedia.org/wiki/Regional\\_Transport\\_Office](http://en.m.wikipedia.org/wiki/Regional_Transport_Office)
- [7]. <https://www.w3schools.com/php>
- [8]. <https://www.sourcecodester.com/php>
- [9]. <https://stackoverflow.com/questions/tagged/php>
- [10]. <https://www.formget.com/login-form-in-php/>
- [11]. <https://codepen.io/dudleystorey/pen/PZyMd>

S.Vijay" A Study on Vehicle License Information Management and Processing System"  
International Journal of Engineering Science Invention (IJESI), Vol. 08, No.10, 2019, PP 50-  
56