



Smart RTO Web and Android Application

Prof. Chandrakant Umarani¹, RashmiTeggi², Prachi Shetti³, Lavanya Dodamani⁴, Yogita Havale⁵

Assistant Professor¹, Student^{2,3,4,5}

Department of CSE

KLE College of Engineering and Technology, Chikodi, Karnataka, India

Abstract:

The number of vehicles is growing increasing problems of vehicle registration, license registration for RTO departments and vehicle related documents verification by traffic police. RTO employee having lot of work burden of making registration, license issue, transfer etc., which requires lot of paper work. As a result people can't get the things done in right time, which is the waste of time and energy. Similarly vehicle owner sometimes forgets to carry the license at time of enquiry. To solve such problems that is by storing all the information related to vehicle and driver at database by RTO administrator. And android application is provided to traffic police to retrieve vehicle and license information.

I. INTRODUCTION

RTO (REGIONAL TRANSPORT OFFICE) is a government bureau which is responsible for the registration for vehicle and issues of driver licence in India. The purpose of this project is to create an application for RTO services. This application provides registration for the license, vehicles registrations and other documentation. In this application investigation functions like checking of license, documents etc. for help of RTO officers are provided. By using this android application traffic police can verify the whole details of person and vehicle. RTO management will be having lot of work regarding registration of vehicles and issue of driver's license insurance. Similarly vehicle owner sometimes forgets to carry the license at time of enquiry. To solve such problems that is by storing all the information related to vehicle and driver at database by RTO administrator.

II. LITERATURE SURVEY

Today, making of driving license is large time consuming process. Also every time, it is not possible to carry whole documents by driver. Current vehicle registration systems for RTO services are very critical & there is no any updating to RTO office.

Totally whole processes are conducted manually. In current market there are no any applications to provide all the above features together in one application. 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 driving license they should remain present on that day if they missed that day then they have to go to the district RTO office. So it is disadvantage because that may be not able to go or he having work on that day. so that here we are developing one web application which provide easiest and efficient way for RTO works like making driving license, insurance of vehicle, registration number of vehicle etc.

In many cases we found that RTO office work get complete through third party called agent. When a person go to the RTO office for driving license, vehicle passing, and registration number of vehicle then a person go through the agent and

agent will complete person work by taking lot of money and that person is unaware about all this system.

III. METHODOLOGY

Modules used

- **User module:**
 - License Registration form
 - Vehicle Registration form
 - Insurance Form
- **Traffic Module:**
 - Check License
 - Check Vehicle
 - Generate Fine
 - Check Insurances
- **RTO Admin**

➤ User Module

User will fill the online form followings are:

License Registration Form

The below figure shows the user license registration form. This form display information of particular license holder with photo and other details such as first name, middle name, last name, email, date of birth, gender, taluka, contact number, ration card number, address, adhar card number, and voter ID.

Vehicle Registration Form

In vehicle Registration form the RTO administrator gets various details of vehicle and to enter vehicle information first select the vehicle type such as two wheeler, three wheeler, four wheeler, and other types. After entering Registration no such as KA 22 CA 7613 then click check vehicle button it gives pop up message found or not found and displays all records in the data grid below figure shows the vehicle registration form of two wheeler vehicle.

Insurance Form

In the below figure the owner will enter his information as well as vehicle information. User information like first name, last name, middle name, mobile number, email, Vehicle Information like vehicle make, vehicle sub-type, vehicle model, engine number, CC, manufacturing year, city, state, chassis number, fuel used, registration date, your bike's IDV,

house number, and select premium plan. We search the insurance formation by using insurance number.

➤ **Traffic Module**

This module mainly focuses on providing the information only to the traffic police officers it consists of checks license checks vehicle information check insurance and also generate fines.

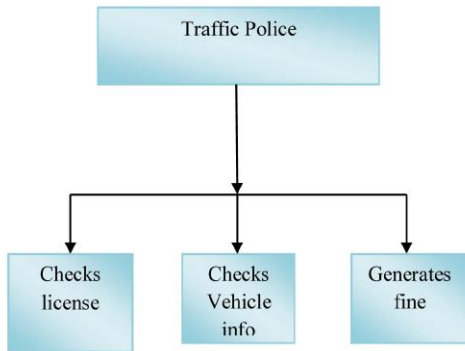


Figure.1. Traffic police module

Check License

The Check License module takes a License number. as an input and returns the respective License information like Name, Photo, address, DOB, issued date, License status and Validity of the license. In case if the record doesn't exist it shows a respective message that record not found.

Check Vehicle

The Check Vehicle module takes a Vehicle Registration number as an input and returns the Respective Owner details like Name and Address. It also includes the Vehicle issued date and valid date of vehicle.

Generate Fine

The Generate Fine module mainly focuses on generating fines for the offences committed. It provides for selecting a variety of offences from a set of given offences for which the fine amount is auto-generated. The user (R.T.O officer) needs to enter other information related to Officer like Officer Id and Other important Vehicle information. This overall process requires internet for data transfer between the client and the server and the data is stored on server.

Check Insurances

Check insurance model which gives the information of the person such as name, city, vehicle make, vehicle model, plan premium, issued date, valid date.

➤ **RTO Admin**

The work of the RTO admin is to verify the license registration from, vehicle registration from. If any detail is unfilled in the form then RTO admin will tell user to fill the details correctly in the form. If the form is filled correctly than RTO admin will submit the form, then license number and vehicle number will generate.

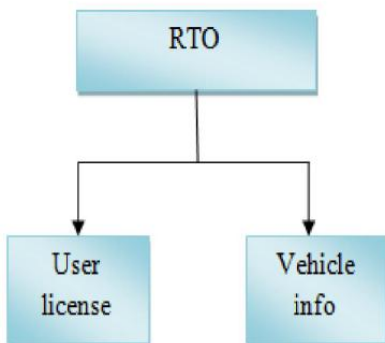


Figure.2. RTO Admin module

IV. SYSTEM ARCHITECTURE

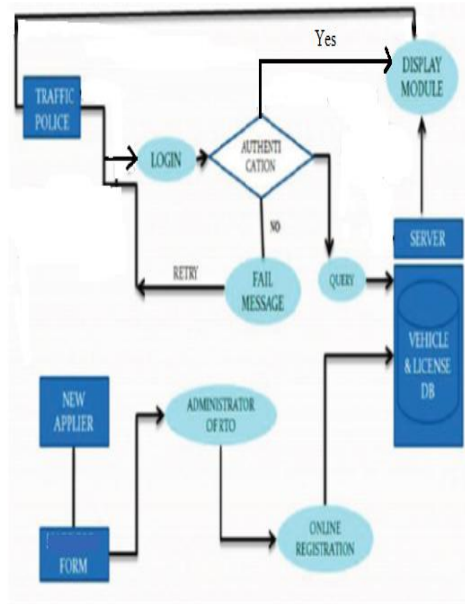


Figure. 3. Data flow of complete process

It influenced by RTO management system. There is no need to carry documents by the vehicle driver. Traffic police directly fetches information through the android application. The work flow of this figure represents initially a new applier will provide his document's hard copy forms to the administrator of RTO. This information is Stored in database at server through on inline registration. And server side end is in PHP. On client side an android application will be provided to police. After police logs into the system can retrieve vehicle and license related information from the RTO database. If authentication fails the information is provided to the police to retry else information about the use is displayed.

Application

- For vehicle carriers person.
- For license registration.

Advantages

- Reduce the corruption in transport department.
- Keep the license documents safely.
- In case of accident it helps to identify the injured person and also helps to find out stolen vehicle effective.
- Traffic police can verify the whole details of person and vehicle.
- No need to carry the license.

Disadvantages

- Traffic police should have internet connection on mobile.
- Traffic police should have smart phone.
- User must remember his license number, Insurance number.

V. CONCLUSION AND FUTURE SCOPE

It can be concluded that " smart RTO web based android application" ,effectively verifies documents related to vehicle and license this system introduced facility for RTO officer to platform verification of license and vehicle and vehicle documents .It also helps RTO officials to maintain records systematically and reduce a lot of paper work and manual efforts. Hence drivers are totally independent of vehicle related

documents. The drivers data will be fetched from RTO server. This RTO application aims to serve the people with digitalized documents like License, Vehicle, and Insurance for easy use as these documents can be lost. This process intends to help the customer in saving their time if these documents are misplaced somewhere and helps in tracking out thefts through location based service. We conclude that this project will be applicable for various RTO services. These project will be provide application easily. The purpose of this project is to create a application for RTO services. This application provides registration for the license, vehicles registrations and other documentation. In this application investigation functions like checking of license, documents, PUC etc. for help of RTO officers are provided. By using this android application traffic police can verify the whole details of person and vehicle. In this application investigation functions like checking of license, documents, PUC etc. for help of RTO officers are provided. By using this android application traffic police can verify the whole details of person and vehicle.

VI. REFERENCES

- [1]. Cross verification of Vehicle and Driver for RTO ISSN:0976-1353 Volume 14 Issue 2 –APRIL 2015.
- [2]. Yan Lin, Senior Member, IEEE, Gary A. Jordan, Mark O. Sanford, Jinxiang Zhu, Member, IEEE, and William H. Babcock, "Economic Analysis of Establishing Regional Transmission Organization and Standard Market Design in the Southeast", IEEE TRANSACTIONS ON POWER SYSTEMS, VOL. 21, NO. 4, NOVEMBER 2006
- [3]. 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
- [4]. Wan-Mi Chen, Yu-Cheng Chen, "Web design and implementation for remote control", in Intelligent Control and Automation (WCICA), 2012, pp. 920 – 924)
- [5]. 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
- [6]. Bazghandi, "Web Database Connectivity Methods (using Mysql) in Windows Platform", in Information and Communication Technologies, 2009, pp. 3577 - 3581
- [7]. Norul Huda Yusof, Rosilah Hassan, "Flash Notes and Easy Electronic Software (EES): New Technique to Improve Digital Logic Design Learning", in International Conference on Electrical Engineering and Informatics, 2011.