



RTO Fine Collection

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Abstract:

Unlicensed driving is a matter of many problems. Every time person carry his licenses, vehicle documents and other related documents so this is more difficult sometimes. To overcome this problem new system is proposed in which we provide digitalis documents used for identification and verification process. The user (driver) is first registered and his/her documents will be uploaded to the server. The information has been updated on server by RTO administrator and if RTO rules are broken then the traffic police will be able to calculate the fine amount and collect that amount from the driver and the information of fine collection will be saved into the server database. Receipt will be generated for the fine and respective notification is sent for the same. So this system will be helpful to the driver as well as for the traffic management people.

Keywords: RTO, Violating, Fine, Management, etc

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 a 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 inquiry. This paper proposed an approach to solving such problems that are by storing all the information related to vehicle and driver at database by RTO administrator. RTO is an advanced "RTO management System" which is design keeping in a view to make the existing registration and issues of information about licence easier and faster. It includes the entire

registration and insurance procedure starting from the initial phase of entering till the result. It is a more reliable, accurate, time-saving and free from any misuse. The system provides information regarding the RTO Application.

II. WORKING

Modules to be implemented

The proposed system has to be cleaved into two parts

- A) Admin
- B) End User

A) Admin

Admin part will be developed into web based technologies like HTML, CSS, PHP and will consist of following modules-

1) Security

In this module login facility will be provided to the admin. Only authorized person can access this admin.

The image shows a web-based login form. At the top is a green button labeled "SIGN IN NOW". Below it are two input fields: "username" and "Password". At the bottom is another green button labeled "SIGN IN" with a small lock icon to its left.



Figure.1. login form

2) RTO Rule Management

In this module facility will be provided for inserting and managing the rules and fines for violating the rules.

The screenshot shows the 'ADD RULE' interface within the 'RTO FINE SYSTEM'. On the left is a dark sidebar with a user profile for 'Admin' and a menu with items: Home, Traffic Police Registration, Create New User, Manage Rules, Reports, Create Alert Message, and Admin Settings. The main content area has a yellow header with 'RTO FINE SYSTEM' and a 'Logout' button. The form contains the following fields: 'Panel code:' with a text input 'Enter Panel code'; 'State:' with a dropdown menu 'Enter State'; 'City:' with a text input 'Enter City'; 'Rule:' with a text input 'Enter Rule'; 'Act:' with a text input 'Enter Act'; and 'Fine:' with a text input 'Fine'. A blue 'submit' button is located at the bottom of the form.

Figure.2. Add Rule

3) User Management

In this module facility will be provided to check the number of registered user and to manage them.

The screenshot shows the 'REGISTRATION FORM' interface within the 'RTO FINE SYSTEM'. The sidebar is identical to Figure 2. The main content area has a yellow header with 'RTO FINE SYSTEM' and a 'Logout' button. The form contains the following fields: 'Name:' with a text input; 'Address:' with a text area; 'Email:' with a text input; 'Mobile No:' with a text input; 'Designation:' with a text input; 'Upload Licence' with a file upload button 'Choose file' and a status 'No file chosen'; and 'Text' with a text area. A grey 'Save Data' button is located at the bottom of the form.

Figure.3. User Registration Form

4) Reports: In this module facility will be provided to create the different types of reports.

B) End User: The second part of the project will be useful for the traffic police and have to be implemented in Android platform. This part will be consists of the modules like-

1) Splash Screen: In this module the welcome splash screen will open at first.

2) Security: In this module login user will be provided to the Traffic police. Only authorized person can access this application.

3) Check documents: In this module facility will be provided to check the driver's documents which are available on the web server.

4) Fine calculation: Traffic police can calculate the total fine that is to be charged to the driver.

5) Capture Image:

In this module facility will be provided to Traffic police. Traffic police will be capture and upload the image (licence image).

III. DATA FLOW DIAGRAM

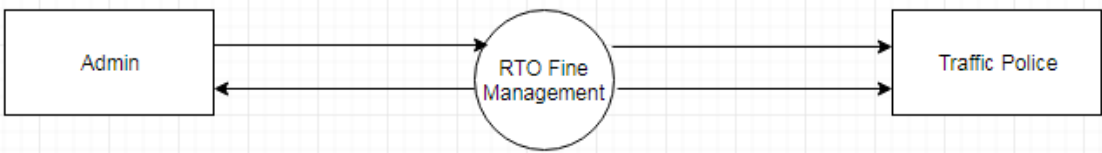


Figure.4. DFD level 0

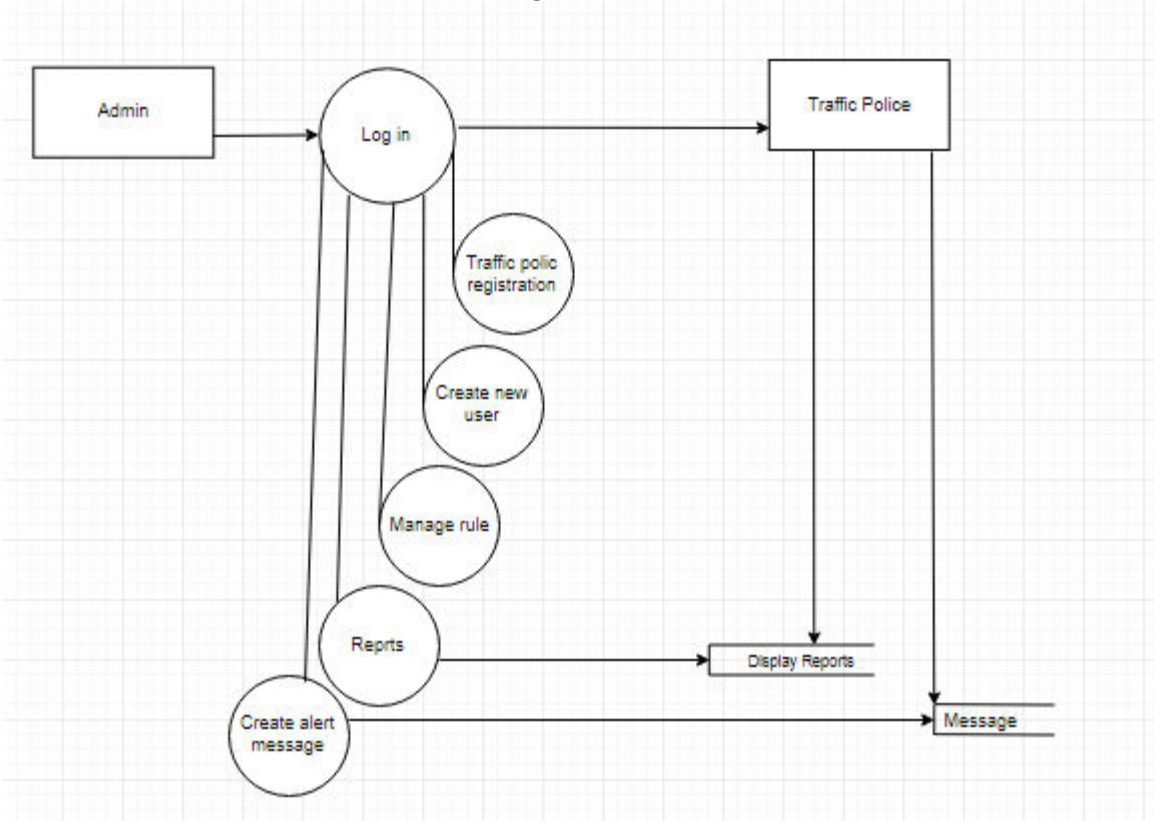


Figure.5. DFD level 1

IV. PROPOSED WORK

Here, we are developing a web application for RTO so here we give a brief description of our project overview. First, we provide familiar environment means the needy user can access this site for their work purpose related to RTO.

First user needs to fill the registration form so that we provide authentication to him and then user can choose option he wants means if he select to making a driving license then we provide driving license requirement details and give available date to him so that he come on that date direct give the test so that he can save his time as well as money. If user wants to pass his vehicle number then also it takes time in old system but here we provide facility that user he buy new vehicle he should have to first register on our site and fill all the required and importance details of vehicle and we gives this details to RTO office directly so that this work will get complete within less time and the user get his number template easily. The administrator is providing for authentication purpose as well as it handles all the database of RTO and manages all the process. He has authority to approved learning license number, permanent license number;

pass the vehicle registration number, etc. Facilities are provided by the administrator.

Advantages of the proposed System:

Following are the advantages of this application-

- Easy to find vehicle details.
- 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.
- Helpful for the traffic police to maintain the record of fine collection.

V. FUTURE SCOPE

This system is also helpful for Traffic police also. The traffic police to be more effective in controlling repeat violators of traffic rules. Traffic Police have the database of registration numbers as well as the history of driving license holders. When a traffic policeman would enter the details of any vehicle caught violating traffic rules, it would give the complete details of that particular vehicle including the name and address of the owner

and the make, model and other details of the vehicle. Not only this, the details of the driving license holder would also be available. Therefore enhanced penalties would be imposed for repetition of violation of traffic rules. Fake registration plates, if any, would be detected immediately.

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VI. CONCLUSION

RTO OFFICE MANAGEMENT SYSTEM is a web application, which is very useful for RTO works completion online. Here we are developing such types of the module which help to reduce the RTO work manually and it helps to save the time of the user. Considerably reduce the corruption in the transport department. Keep the license documents safely.

VII. REFERENCES

- [1]. <http://www.w3schools.com/>.
- [2]. <http://php.net/manual/en/langref.php>
- [3]. <https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference>