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# Vehicle document verificati on using qrcode

K.Hariharan<sup>1</sup>, A.Gopi<sup>2</sup>, K.Nandhagopal<sup>3</sup>

<sup>1,2,3</sup>Master of Computer Applications, M.KumarasamyCollegeofEngineering,

Email: harikarthi732@gmail.com<sup>1</sup>, gopidisa1307@gmail.com<sup>2</sup>, nandhakarthikeyan@gmail.com<sup>3</sup>,

Abstract: Now a days Vehicle document verification is mand at oryinevery where. People have to carry the Driving License, Insurance and RC book etc., at any time while driving. In this case there may be a chance to forget or missing or fakedocuments submission. This Web Application tries to rectify the difficulty of this situation by providing QR CODE. The Authenticated persons are using this application to verify the documents by using QR CODE SCANNER. It is an easy way toverify the documents of the vehicles using QR scanner. Driving License, Insurance and RC book details can be checked by the Authenticated persons like Traffic police. There is no need to carrya Hard copy of the documents. A QR code is attached with the number plate during registration. While scanning the QR code it gives the details about the vehicle holder's details such as Driving license, RC book. Mainly helps the traffic police to give the penalty for thosewho violates the traffic rules and can retrieve the previous data about that person. Overall documents are handled by authorized persons only.

Keywords: QR,RC,Traffic

#### 1.INTRODUCTION

This is a Web Application used to verify the details of thevehicle with RC Book, Driving License and Insurance. It is an easy way to verify the documents of the vehicles using QR scanner. Driving License, Insurance and RC book details can be checked by the Authenticated persons like Traffic police. There is no need to carry a Hard copy of the documents by an individual person. The application show the full details about the vehicle with their RC Book, Driving License, and Insurance. It is more user friendly. The section such as, registration, license, etc. are combined together in a single window.

#### **2.EXISTINGSYSTEM**

Disrupting traffic guidelines on street is a significant issuethese days. Because of huge populace and traffic blockage itishard to distinguish which vehicle has defied traffic norms. To screen offender vehicle physically is troublesome. The current framework is monotonous and tedious, it requires halting the vehicle, gathering the proprietor data, checkinghis permit and gathering Fine, giving the affirmation and afterward enabling the vehicle to cruise by.

#### **DISADVANTAGES**

• Ashugetimeisrequiredforphysicallychallanthetrafficviolators, Traffic Police officials don't givesufficient time for traffic guideline and clearingcongesteddrivingconditions.

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 Manualarrangementofbookingofpettycriminaloffense case isn't straightforward. It encouragesdegeneratepractices.

• In manual framework, there is no record of pastcriminaltrafficoffenses by the vehicle. Because of this, recurrent wrong doers escape higher punishments.

There is an extent of pilferage and misappropriation of fine sumgathered by Traffic Police.
Numerous multiple times, corrupt cops utilize copy receiptbooks. The current framework is dull and tedious

# 3. PROPOSEDSYSTEM

The main objective Operating system is to provide efficient use of resources.

# **ADVANTAGES**

- Our objective of traffic police framework discoverapproved client.
- Reducethetrafficpoliceworktogettingdataabout thevehicle.
- Userdoesn'thavetoconveytheirvehiclearchivewithoutfail.

### 4. PROBLEMDEFINITION

In day to day life there is lots of increment in population. Now a day's most of the people are using their own vehicles. Duetothatroadtraffichasbeenincreased tremendously.

Due to this traffic Police work has been increased. RegionalTransport office (RTO) responsible for the registration of allvehicle related document. RTO management has lots of workrelated to registration of vehicle documentation. Regularlywe observe that people have to stop their vehicles on the roador toll booth to show their documents for their vehicles. This is waste of time for the driver and also for the police whotake time in checking the documents and return them backagain.

#### 5. OVERVIEWOFTHEPROJECT

Theproject"vehicledocumentverificationusingQRcode"application will be way to verify the documents of he vehicles using QR scanner. Driving License,Insurance and RC book details can be checked by the Authenticated Person slike Trafficpolice. There is no need to carrya Hard copy ofthedocuments.

# **MODULEDESCRIPTION**

Therearetwomodules for admin and documents verify.

#### 6. MODULESUSED

- admin
- Documentsverify

#### **ADMIN**

Login module is for traffic police and admin to log in withregisteredinformation.

# **DOCUMENTS VERIFY**

Vehicledocuments verify module defined to full detailedinformation about the vehicle aswell

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asvehicle'sowner.ItshowsthefulldetailssuchasRCBook,DrivingLicense,Insurance.

### **DATAFLOW DIAGRAM**

Data flow diagram informs the flow of components of asoftware or project. The process flow will be represented intheformatofgraph.

# **DataflowSymbols**

Dataflowdiagramincludesfourpropertiessuchas

- Entity
- Processing
- Storage
- Flowofdata

#### 7.SYSTEMTESTING

System testing is a testing of hardware and software. Knowledge of logic is unnecessary for system testing.

# **UNITTESTING**

Unit testing deals with components of a software. It is asmallpartoftesting. Developers are involved in unittesting. It includes functions, interfaces, and classes as a part of software for unittesting.

# **VALIDATIONTESTING**

Validation testing is the process of checking whether thesoftwarespecificationsatisfiesthecustomerneed.

# **USERACCEPTANCETESTING**

User acceptance testing is a client side testing. The uservalidates the software whether it meets their requirements. This is a final testing performed before the deployment of thesoftware.

#### **BLACKBOXTESTING**

Black-box testing is a high level testing and it is a method of testing that the internal structure of the software is notknowntothetester.

# WHITEBOXTESTING

White-box testingisalowerlevel of testingmethod, whereas the internal structure of the software must known totheuser.

#### 8.SYSTEMIMPLEMENTATION

Implementationisthe stage of the project where the theoretical design is sent into a working theimplementationaccessisnotcarefullyplannedandcontrolled. Implementation includes all those activities thattake place to convert from old system to new one. The newsystem may be totally new, replacing a testing manual orautomated system or may be a major modification to an existing system. Properim plementation is essential to provide are liablesystemtomeettheorganizationrequirement. Successful implementation guaranteethe improvement of the organization using the new system, but improper installation will prevent. The system can be implemented only after thorough testing is done and found to be working according specifications. to the The system willpersonnelcheckthefeasibilityofthesystem.

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# 9. CONCLUSION

Regularly people have to stop their vehicles on the road ortoll booth to show their documents for their vehicles. This iswaste of time for the driver and also for the police who taketime in checking the documents and return them back again. This system will be the approach to solve such problems that replaces the current manual process for checking the vehicledocument and user detail by using QR code. And roid appwith which traffic police can scan the QR code on his phoneand all the details (Driving licenses, Insurance) about the user will be verified. The public are in a need to maintain the entire document and update them regularly by keeping track of renewal/expirydate.

# 10. FUTUREENHANCEMENT

Infuture, thissystem canbeimplemented to see the sensitive areas where most of the rule violations occur. The speed violation can be implemented in such a way that if the driver exceeds the speed limit of particular road then automatically the fine will be applied to him.

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