Digital Vehicle License, Insurance And Rc Book Tracing System

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Abstract- *Digital vehicle is based on 'Web Application'. Nowadays increasing public used vehicle via road. But they are not followed any Rules and Regulation. So this project is used to public vehicle details are stored to database. Police can view and check that details like (License, Insurance and RC Book) and the can enter their punishment also. An application which will facilitate the user for not worrying about carrying the documents of their vehicle. We can digitalize all documents which are taken care of with so much efforts and hard work. This application will make sure you have all the documents with you every time anywhere wherever you go. Different documents like License, PUC, RCBook, Insurance papers can be easily handled. This app can help you not to carry all the documents with you every time you drive a vehicle. You can just use the mobile app which contains all the documents .There is no fear of losing these documents as these are digitalized. Different documents that can be used are License, PUC, RC Book, Insurance papers. If any other person except the owner drives the vehicle and uses the application for verifying the documents then a message alert will be sent to the owner of the vehicle.*

Keywords- Digital vechile, Licence

I. INTRODUCTION

Tracker estimates the motion of vehicle or vehicles between the frame sequences. Detector processes in each frame independently and localise the target vehicle or vehicles based on the training classifier. The training classifier updates constantly from the learning process. The learning component also estimates the errors of the detector which it can make two types of errors: the false positive and false negative. In addition, the learning component also can generate positive and negative training samples based on the error estimation for the future detection to avoid errors. It is assumed that both detector and tracker can make errors so FBT has been proposed to monitoring the performance of the tracker. By using the proposed method, more training samples based on the current input video can be generated which the classifier will be updated more accurate.

Vehicle tracking methods can use various features, such as points , models , shapes , and motions . This paper focuses on using the points and the motions of the targets. Window tracking is a widely used in object tracking and there are two approaches in the window tracking process: static template model and adaptive model. The main difference between them is that the adaptive model can update the template during the tracking process and the other is not. However, the disadvantage of the window tracking is that the templates are limited for appearance modelling. In this process, an adaptive discriminative tracking model has proposed, which the model template of the targets are updated continually in both offline and during the process. The positive results in the neighbourhood frames by the tracking process are used to be the positive training samples in the following detection and tracking process, similarly, the negative results are used as negative training samples. The update strategy can handle the problems of changing appearance of the target and short-term occlusion which is another problem in tracking as tracking will be affected by any frames lost or random similar appearances of background during tracking. The TLD algorithm built an online feature detector of a single target at the first frame, which can search the target continuously during the entire tracking process. Positive and negative samples are generated for update the detector classification model. This approach addresses the problem of recovering the tracking target in the event of tracking failures but it can only track the area selected in the first frame by the operator.

II. LITERATURE REVIEW

Sanjeev Shelar(2015):"Vehicle Information System" An application which will facilitate the user for not worrying about carrying the documents of their vehicle. We can digitalize all documents which are taken care of with so much efforts and hard work. This application will make sure you have all the documents with you every time anywhere wherever you go. Different documents like License, PUC, RCBook, Insurance papers can be easily handled. This app can help you not to carry all the documents with you every time you drive a vehicle. You can just use the mobile app which contains all the documents .There is no fear of losing these

documents as these are digitalized. Different documents that can be used are License, PUC, RC Book, Insurance papers. If any other person except the owner drives the vehicle and uses the application for verifying the documents then a message alert will be sent to the owner of the vehicle.

Wasim Sheikh(2019):" Digital Vehicle – License, Insurance And RC Book Tracing For Police based android app" The proposed tracking framework designed as: Tracker estimates the motion of vehicle or vehicles between the frame sequences. Detector processes in each frame independently and localise the target vehicle or vehicles based on the training classifier. The training codeshoppy classifier updates constantly from the learning process. The learning component also estimates the errors of the detector which it can make two types of errors: the false positive and false negative. In addition, the learning component also can generate positive and negative training samples based on the error estimation for the future detection to avoid errors. It is assumed that both detector and tracker can make errors so FBT has been proposed to monitoring the performance of the tracker.

III. METHODOLOGY

The proposed system has an android application designed using JAVA and XML with dedicated user interfaces for each of the actors on the scene. The android application connects to a webserver by making a HTTP request so that when the android application is executed, it connects the androiddevice to the PHP script. The PHP script fetches the data from the database, which is then encoded and sent to the device. This encoded data is then parsed and displayed on the android device.

IV. MODULES DESCRIPTION

Police

- Login
- Register
- Update punishment
- View license expiry
- Check RC book

Admim

Admin enter the login and view documents   and update details.

Public

- Register

- Login
- Upload public documents
- Maintain database

V. STEPS INVOLVED

RTO / Emission Test Centers / Insurance Companies: 1. RTO registers the users with a driving license and provides a unique user id. 2. They upload the necessary documents onto the drivers' and the vehicles' profiles.

General User:

1. Signs in through the android application using the user id provided to him as authentication.
2. Can view all the latest documents such as driving license, owned vehicle details,
3. RC Book, latest emission test certificate, insurance copy, etc. on his profile page.
4. Can report stolen vehicle to notify the nearest police.
5. Can check any unpaid offences on his vehicle.

Police:

1. Signs in through the android application using the user id provided to him as authentication.
2. Can enter a vehicle number to view the owner's or vehicle'sdocuments and previous unpaid offences.
3. Can report any offences committed by the driver using the application.
4. Receives reports about vehicles stolen under his jurisdiction/working location.

VI. ARCHITECTURE DESIGN
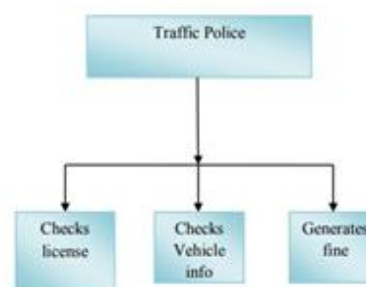
VII. CONCLUSION

The first important outcome of this project is the improved efficiency in traffic policing. The work and burden on the police is greatly reduced as they can now check validated vehicle and driver documents with just the click of a

button on the application. It also paves way for an easier and better system for handling traffic related violations as the police can now book the vehicles on the road that are breaking the rules from within the application. Also, as the owner of the vehicle is updated with this information in real time, they can ensure that no fines are due for the vehicles they own. This system also enables a simplified system for commuters to handle various vehicle documents as they now no longer have to worry about managing the hard copies of each. With every important document present as a soft copy in their mobiles, the commuters can now just show these to the police for verification. Along with all of the above mentioned benefits, the system now greatly helps vehicle owners lodge a stolen vehicle report from within the app. This can help notify the police in the nearby locality faster and help track the vehicle in a more efficient manner. This integrated system greatly improves efficiency and makes way for a better approach to manage the work of the traffic department. Thus, the major expected outcome of this project is to improve public welfare using the latest technologies.

REFFERENCES

[1] http://en.wikipedia.org/wiki/Android_(operating_system)
[2] http://en.wikipedia.org/wiki/Android_software_develop ment
[3] Dave smith with jeff freisen; "Android Recipes : a problem solution approach" Third Edition
[4] Jhonathan Stark; "Android apps with css ,html and javascript ", O'Reily publications
[5] Neil Smyth; " Android 4.2 App Development Essentials", publisher techotopia: http://www.techotopia.com/index.php/Android_4_App_ Developme nt_Essentials
[6] Android Recipes A Problem-Solution Approach, 3 edition by Dave smith with Jeff Friesen