

## E-Tolling and Crime detection system using QR-Token.

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**Abstract** – The existing toll booth system is time consuming. The theft vehicle detection system is also not working properly. Since the number plate of theft vehicle can be removed from the vehicle or it can be replaced by other number plate, it makes very difficult to detect the theft vehicle for the police department. So we have proposed a new technique on the QR-Token based vehicle detection system in which QR-Token is generated at the government office or at the RTO offices. The QR-Token is not removable from the vehicle. The vehicle not having QR-Token is considered a theft vehicle. No-one can change the QR-Token because he or she will not have any idea about the data present in the QR-Token.

**Key Words:** QR-Token, RTO, HC2D, Embedded camera, OTP, GUI.

### 1. INTRODUCTION

QR-Token is the sort of two dimensional base Token intended for programmed industry. The QR-Token gives the machine discernable that contains data about thing which is appended. There are four institutionalized encoding modes. Also, they are numeric, alpha numeric byte. The example picture of QR-Token stamped then the information picture partitioned into square. The devisor could isolate the constant picture for continuous ID and the yield are characterized in the squares. Two Dimensional Token were joined into Tokens to acclimate the squares. QR-Token in the inserted Cam gadget has been utilized as new information interfaces with the assistance of versatile applications. The removed QR-Token a picture does not consider a non-uniform foundation but rather now we will execute the QR-Token by proposing a proficient calculation to separate the QR shape no uniform foundation too. Contrast with earlier work this approach will have higher exactness for QR acknowledgment and functional use in a portable situation. Perused Solomon is a Token which has an exceptional capacity of mistake amendment so in the event that we put some fitting places of the Token without harming the data, it is difficult to far word that kind proper position since it depended on QR-Token picture and examples.

Presently a days QR-Tokens show up wherever like notices machines and implanted destinations and items bundling and so on. QR-Token are carefully associated with purchaser to the web through portable. To enhance the application for all intents and purposes HC2D standardized tag are supplanted by QR-Token. QR-Token research the coding and interpreting the picture. The entire picture has been filtered after that all twofold QR-Token can be created.

There are number of advantages with QR-Token more than customary H2CD code like: Adaptability, dependability.

The few advantages of QR-Tokens:

1. It decrease the cost of execution.
2. It gives high limit.
3. It requires less space contrast with HC2D scanner tag.
4. These are enlisted by soil and harm.
5. It can be perused from any course.

QR Tokens are filtered to get to the instant messages. Both labels and QR are utilized as a part of field correspondence innovation.

### 1.1 Embedded cam

Installed Camera is a camcorder. For the most part it is utilized to catch picture. Implanted Camera is associated by USB and PC "Inserted Cam" long shape is Embedded Camera it is a computerized Camera and it is associated with PC Embedded Camera can send live pictures from whatever it captures. Many desktop PC are accompanying Camera implies Camera are as of now in work in it. Or, then again if not than we have to purchase Camera and feet to the PC independently at whatever time and can likewise evacuate it at whatever point we need.

The Embedded Camera will catch the QR-Tokens. The QR-Tokens is of two-dimensional QR-Tokens. For the most part it used to store the little measure of test information. There are distinctive size of blunder amendment levels for putting away unique measure of information. Late cell phones like Android telephones have capacity to utilize the substance of QR-Token URL to open in the telephone implanted program. iPhone are likewise used to have the capacity to peruse QR-Token with the assistance of programming nematode.

QR-Token are likewise used to sweep instant messages if human individual data in the event that it is at the hazard than close field is utilized for installment reason. The QR comprise of square dabs that is known as dark modules masterminded in white foundation we can be caught by the Embedded Camera. These data can handled by utilizing read Solomon mistake until the picture is deciphered legitimately. Information is then extricated from the example in the both flat and vertical part of the picture.

### 3. ARCHITECTURAL DIAGRAM

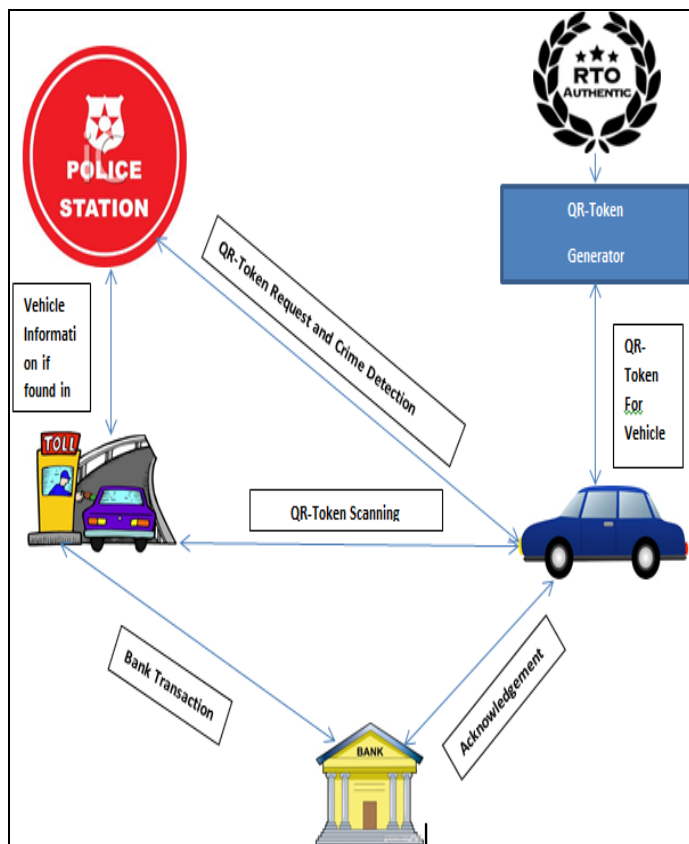
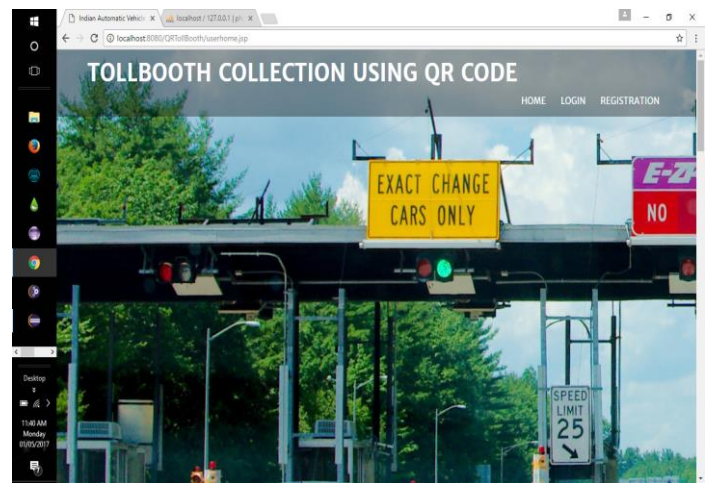


Fig -1: Architectural diagram

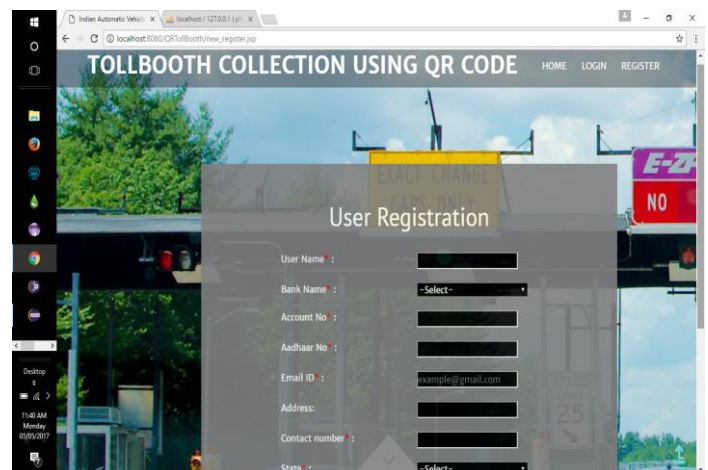
QR-Token is biggest limit of 2D scanner tag for correspondence, open relations, and information transport. In proposed framework, to stay away from the downsides of existing framework, we are executing the idea of QR-Token framework. Our Token will comprise of vehicle number, proprietor data, vehicle suspension number, bank details. In the proposed framework Token is produced at approved RTO office as it were. Subsequently no other can build up the scanner tag for vehicle. The intention is to plan another picture acknowledgment calculation for read the QR token progressively mode joined at the vehicle front and back end. In this framework, when client purchase the vehicle, he get the QR-Token rather than number plate. In that , the exceptional character number is covered up. In the event that his vehicle is stolen, then he will make the section in stolen vehicle location framework. His everything points of interest and vehicle subtle elements are put away in database. In the event that clients stolen vehicle identified by tollbooth administrator since this vehicle one of a kind personality number and one of a kind number present in database are coordinated, then tollbooth administrator educate to the RTO officer. After that RTO workplaces check this vehicle.

### 4. RESULTS

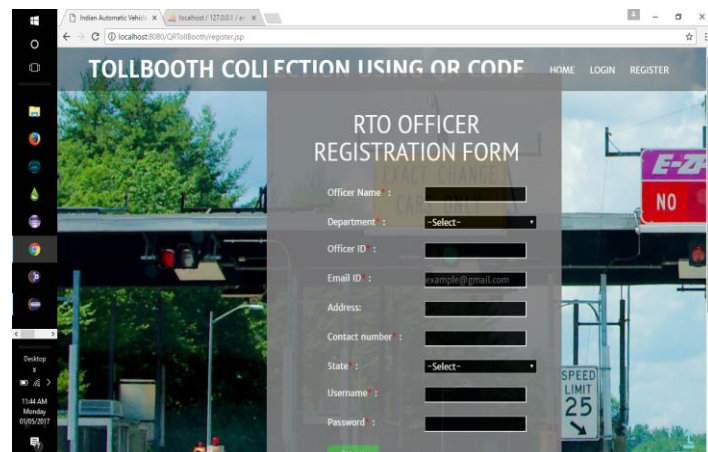
#### Home



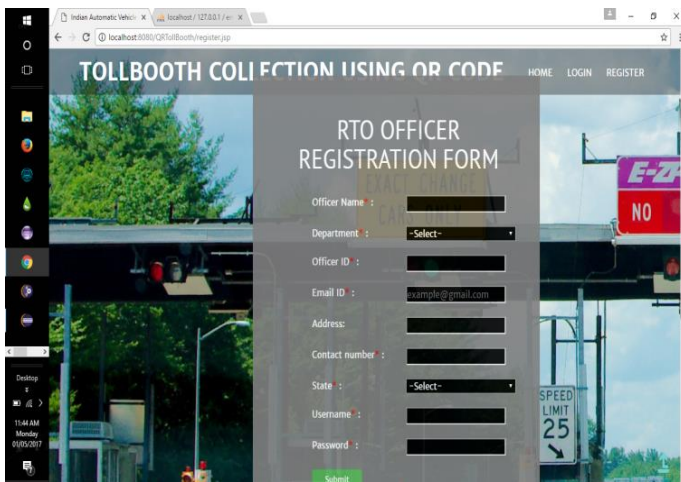
#### User Registration



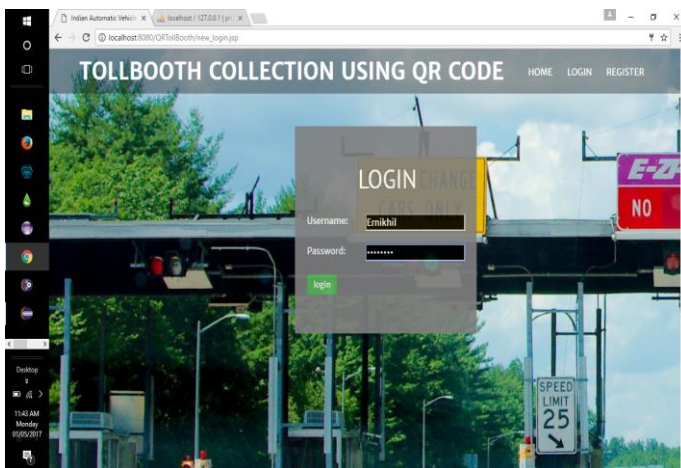
#### Police Officer Registration



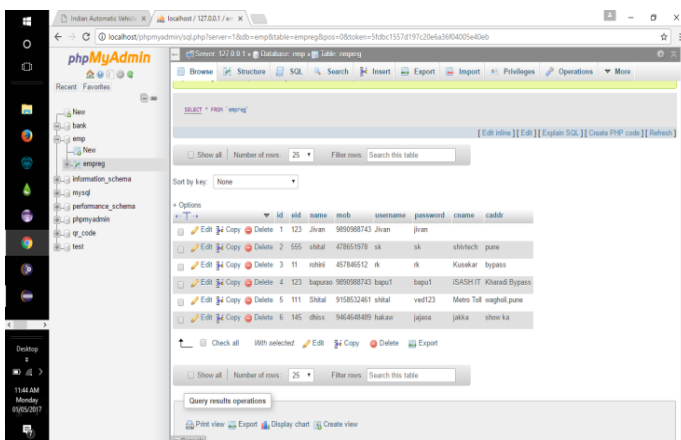
### RTO Officer Registration



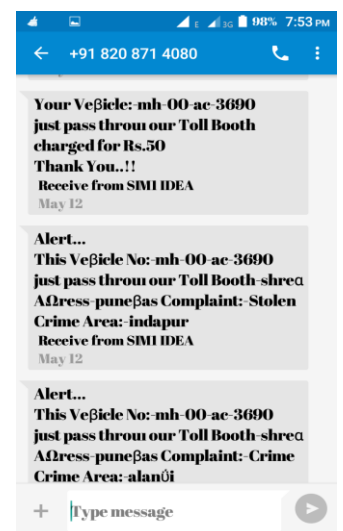
### Login



### Database



### Scanner-Android App



### 6. CONCLUSION

The conclusion of this proposed system, it will save time reduce traffic generally in toll booth and consumes fuel and if the vehicle is registered or stolen then it will be easily identified by this proposed system. This system also used to detect, if that vehicle found in any other crime.

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