



# Digitization in Transportation: A Review

N.A. Ghodichore<sup>1</sup>, AntrikshMahadule<sup>2</sup>, AmrutRai<sup>3</sup>, Avinash Kumar<sup>4</sup>  
Assistant Professor<sup>1</sup>, Student<sup>2,3,4</sup>

Department of Computer Technology  
Priyadarshini College of Engineering, Nagpur, India

## Abstract:

Digitization In Transportation is a website which is an online vehicle registration system, which generate a unique code, unique identity and that identity or code will further use for maintaining data, securing and managing transportation system in country. The system is basically a HTML based website which includes updating documents (mandatory) which will generate an account of a vehicle on web. By connecting this account to e-valet or Net-banking account one can able to pay toll tax online without waiting in queue. At the developer side, authority will able to track down vehicle and its document information too.

## I. INTRODUCTION

15 minutes and still waiting! so many times this happen with us when we are standing in a queue of toll plaza, time consuming and irritating too, this process is going on from so long. This process is human assist and totally depends on that person who will going to assist you.also sometimes vehicle running on streets in INDIA with expired permit, registration or insurance related document. Mmonitoring this system is not an easy job.The registration process of vehicle and related document done manually and time consuming. One more problem related to toll recovery system is the toll scam. In INDIA every toll contractor have a period of time for recovery of toll, but by giving so many excuses , problem description they always extend the time period which tends to loss of revenue to government and loss of money of consumer too. Though there are many moderator watching this scam but no in can do anything. Also in INDIA so many vehicle running on the streets without permit and with lapsed registration and other documents. Having an eye on them is not easy stuff, and if someone find with incomplete documents or with some problem then there is more possibility that they escape from this system by bypassing this with money without punishment. The reason behind this illegal transportation activities is not one, so many problems are there:

1) Toll recovery period extension due to easy bypass in rules of constitution.2) Less offices for renewing documents, or it may not so easy and fully occupied by agents who are working for registration to renewing facilities and due to which it gets costly.3) corruption on road is very common, if you haven't licence or any vehicle related documents then also you can travel in INDIA, you just need to have money in your pocket.

## II. IMPACT AREA OF PROJECT

Many of the start up companies already behind this problem, some of them are creating 'android' application for booking of toll online; still need to stand on queue and one more app in your phone. some are creating big budget hardware (embedded system)which may be close to perfect bust still need huge primary installation cost due to which in developing countries like INDIA, we are not considering to install these kind of projects. This is very efficient low budget idea, by which we can target all the above aspect and also take this to crack down very exciting uses for server side. One time updating system which enable user to pay toll online from there valet or bank

account on single response. While using this project it will help you to maintain your own records of vehicles.

## III. OBJECTIVE OF THE PROJECT

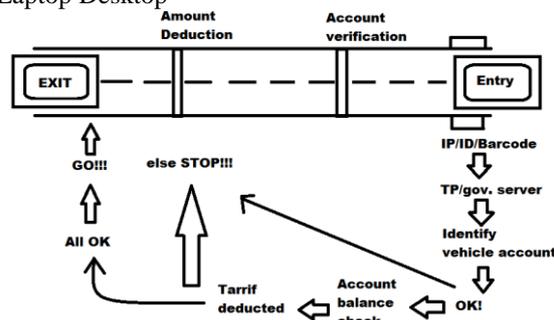
The main objective behind making this project is to create a user friendly system for renewal and updating vehicle document. Though it is cost efficient system still it need to cover all aspects of transportation sector which are related to documents and registration. This project will help people to reduce their valuable time on toll junctions and making the revenue system clear and corruption free. User friendly system that make queue free toll tax system. It's CASHLESS and PAPERLESS,ECOFRIENDLY also truly DIGITAL. SECURE transportation is done with less human interaction, TIME efficient.

## IV. METHODOLOGY

The system is basically a HTML website which includes an updating of documents (mandatory) which will generate an account of vehicle on web. By connecting this account to e-valet or e-banking account one can able to pay toll tax online without waiting in queue. At the Developer side, authority will able to track down vehicle and its documentation information. The coding is to be done using HTML, CSS, PHP and JAVASCRIPT. It also include database part which is essential to maintain vehicle directory.

**Hardware requirement:** For input entry of vehicle bar-code which will introduce i.d. of vehicle, we need a BARCODE reader. At the user end, user needs a computer system and scanner machine for uploading document.

**Software requirement:** HTML5, CSS, PHP, JAVASCRIPT, MY-SQL these are the programming which we are using for creating this website. Microsoft OS- it is used to GUI for Laptop Desktop



## **V. EXECUTION LOGIC**

In this first user need to create an account on website by filling all his information and Documents related to vehicle he wants to register on website. Also his bank details by using it user want to pay all transactions. Then JavaScript which is used while creating website is used to create a unique identification number of that user will provide to user. This unique identification number is then converted to barcode and a barcode is generated on users account .after generating barcode user can print that barcode and stick it on his vehicle, for using online toll pay and vehicle security management system. User can pay toll tax, revenue tax, insurance by this barcode cum unique identification number.Once the vehicle having this barcode crosses toll plaza, high definition barcode scanner will scan that barcode and the system will fire a query to website to database then database will matches that identity number to particular user account and then it will make transaction using users bank account and then user is free to go without any stop. Also database will maintain all of information regarding particular user. If any problem occurs while transaction toll in charge will notify regarding it. This system is user friendly and efficient.

## **VI. CONCLUSION**

This project will help consumer to get a time efficient and traffic free toll paying system and get rid of boring tool paying system.It helps vendor to merchandise in some manner of advertisement but the primary goal is make a secure environment for vehicle transportation and collect revenue online.

## **VII. REFERENCES**

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