



SURVEY ON E-FINGERPRINT TICKET

Zakkam Solomon ^{*1}, Meghana K M ², Manjula ³, Roshini B ⁴

^{*1, 2, 3} 4th Semester CSE, M.Tech. Student, SET, Jain University, Bengaluru, India

⁴ Assistant Professor, SET, Jain University, Bengaluru, India

DOI: <https://doi.org/10.5281/zenodo.572295>

Abstract

Earlier work has demonstrated that when going in a transport the installment accomplished for ticket is with money. The transport ticket has such an installment figure which makes the voyager or the conductor shy of cash as far as change. This makes the conductor to keep the change with himself. This makes bother to the explorers. Subsequently there is a requirement for better workplace. To conquer this issue we are making utilization of fingerprints of the voyager which are connected to the database. The enrollment procedure will take every one of the points of interest of the client when going surprisingly. The record is made with some e-cash in it. While venturing out client needs to give his unique mark and pay the cash for ticket through his record naturally. This beats the client bother. What's more, Security is the fundamental calculate all associations and has more significance in transport. Security can be given by any mean can't give greater adaptability, the current E-Ticket framework does not contain adequate security, so we think to execute biometrics in our examination and after that we moved to another imaginative innovation to utilize unique mark module likewise for the extra for client adaptability utilizing Global System for Mobile Communication module for Communication reason for sending and accepting message. By this Survey, we can limit Fraud in transport and give greater office to voyager and enhances security for the general public.

Keywords: Fingerprint; Biometric; MYSQL; PHP.

Cite This Article: Zakkam Solomon, Meghana K M, Manjula, and Roshini B. (2017). "SURVEY ON E-FINGERPRINT TICKET." *International Journal of Research - Granthaalayah*, 5(4) RACSIT, 53-57. <https://doi.org/10.5281/zenodo.572295>.

1. Introduction

The present world is known for future technology. Countries like India and other developing nation are more difficult to manage the projects like people safety, theft identification, public transportation management services and data mining based application so on, Hence the best solution for above measure is our future implementing project that is E-Fingerprint Ticket. Today's transportation framework is a chaotic for individuals living in quick running world.

Transportation framework should be sufficiently keen to give savvy administration to each person. The present situation in transport is exceptionally chafing, as there is deficiency of cash

either with the conductor or the voyager. The venture runs with brilliant city idea. We are exhibiting a savvy gadget which will allow the explorers to travel anyplace in a transport by utilizing e-money. It is an issue that is emerging these days to give a change to purchase a ticket, this venture will conquer that issue and make the explorer go with his e-money. This device uses the technology like image processing, cloud computing, data mining etc. Our base idea of concept relay on biometric fingerprint which had reached to great extent and we can use the biometric fingerprint technology in wide range of application. One such example is E-Ticket finger print. E-Ticket finger print device can be applied to bus transportation, restaurant, offline shopping billing, bank ATM and educational institution ...so on.

2. Overview

Fingerprint Fingerprints are one of many forms of biometrics, used to identify individuals and verify their identity. The analysis of fingerprints for matching purposes generally requires the comparison of several features of the print pattern. These include patterns, which are aggregate characteristics of ridges, and minutia points, which are unique features found within the patterns. It is also necessary to know the structure and properties of human skin in order to successfully employ some of the imaging technologies [2]. The three basic patterns of fingerprint ridges are the arch, loop, and whorl. • Arch: The ridges enter from one side of the finger, rise in the center forming an arc, and then exit the other side of the finger. • Loop: The ridges enter from one side of a finger, form a curve, and then exit on that same side. • Whorl: Ridges form circularly around a central point on the finger. In the whorl pattern, ridges form circularly around a central point on the finger. Bifurcations are points at which a single ridge splits into two ridges. Minutiae and patterns are very important in the analysis of fingerprints since no two fingers have been shown to be identical [1].



Registration

Explorer needs to enroll himself before taking his first ride in a transport. For enlistment we will make a site utilizing information of PHP, HTML and MySQL (Database). At the point when the client registers she/he will be given a Unique ID. With his enrollment a virtual Wallet is additionally made. By utilizing Bank Gateway we can without much of stretch exchange cash to

wallet. This cash will be utilized amid going after enrollment when the explorer will travel s/he needs to give his/her thumb impression so his unique mark can be utilized for further exchanges.

While Travelling

Explorers Unique ID and finger impression will be utilized to coordinate with the database, once the unique mark is coordinated whatever the installment of his ticket is to be made will be straightforwardly deducted from his wallet, if the wallet has an adequate adjust. After the exchange is effectively done, ticket will be printed through warm printer and furthermore client gets SMS containing current admission deducted and accessible adjust.

Parental Control

At the time of registration parents need to add their children details so when the child travels whatever the ticket fare generated will be deducted from the parent's wallet. This will also notify the parent from where their child is travelling and at what time.

1) What are biometrics?

Advances that utilization one of kind physical or behavioral qualities to check the personality of a person.

2) How does finger scan identification work?

Utilizing a scanner, the product examines whirls and circular segments of the finger to make a network of converging focuses. These focuses are then put away as a progression of planning numbers as it were. At the point when the finger is examined once more, the number arrangement will rehash and match itself to the put away unique.

3) Isn't this "fingerprinting"?

No. An entire unique finger impression is a bit much for careful character check, and no finger impression pictures are ever recorded. Entryway sensors coordinate the lattice focuses that were taken in your unique sweep and exchange them to the number arrangement the framework relegated to you. As this data is put away as a number just, a unique mark picture can't be reproduced and security is kept up.

4) Can my information be taken or copied from this system?

No. In view of the way the format of one of a kind focuses is reproduced, it is difficult to copy fingerprints and the information is not usable for whatever other purposes or by any outside offices.

3. Proposed System

Let us consider the bus transportation where the device consist of finger print scanner, debit card reader, display, alphanumeric keypad,

- If a passenger is not registered to the device then he/she should place the finger on the scanner then have to register the name and phone number (note: registered passenger need not to be register again just place finger and pay).
- The conductor takes the destination information and then the E-bill generated through text message for reference.

- The passenger can pay the amount in cash mode, debit card or smart card mode.



4. Motivation

- Papers are saved (Eco friendly).
- Need not to be bother about proper amount of money (using debit card).
- Passenger database management system is maintained.
- Easy to identify thieves (pick pockets, chain snatcher etc.)
- Easy to access for both conductor and passenger.
- Marketing strategy.
- Due to the Eco friendly, security, proper passenger database system, thus it is easy to access for both people and respective department hence they will accept the project.
- Development cost is less so margin profit can be earned more.
- This project can be customized to other application like restaurant, offline shopping billing and educational institution in order to gain more revenue.

5. Conclusion

This paper finally concluded and applications, favorable circumstances will be improved beneath. By this Research Work We can Help to Society by Simplify the System We can spare bunches of Money. Likewise by not utilizing the Paper we will spare loads of Tree and Helps the Environment by Saving Tons of Paper.

Today everything is turning towards being keen, our framework too People confront issue while they go in transport, as they don't have change (money).there is parcel of defilement seen there.

To defeat this issue we are making this system. We are including shrewd voyaging. We need to have e-cash so that is less debasement this will bolster shrewd city idea.

References

- [1] D. Vinod kumar, Prof.M R K Murthy, — Fingerprint Based ATM Security by using ARM7l, IOSR Journal of Electronics and Communication Engineering (IOSRJECE) ISSN : 2278-2834.
- [2] Mr. S.B.Chaudhari, Mr. AshitoshBelge, Mr. SnehalGadade, Mr. Prashant Gaikwad, Ms. SanchitaLachke., A Review: Biometric Fingerprint Recognition For Bus Ticket System. International Journal on Recent and Innovation Trends in Computing and Communication ISSN: 2321-8169 Volume: 4 Issue: 9, 2016.
- [3] D. Ramesh, B. Kantha Rao, Ch. MeenaKumari, Highly Secured Railway Reservation using Biometric Technology, ISSN 2319-8885 Vol.04,Issue.17, June-2015, Pages:3130-3135

*Corresponding author.

E-mail address: solomonzakkam@gmail.com