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Human Identity Management System Based on Network by using Barcode

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Abstract— This paper is mainly focused for Human Identity based on Smart Card Using Barcode Reader. The concept of bringing different applications together in one smart card. The multiple information of the Human being in the Database Server which would not just help the government to track down individuals, but would make life far easier for citizens as they would not have to submit multiple documents each time they want to avail public, private and government sectors. This system contains personal detail such as Profile, Voter Identity, Passport, Aadhaar, Pan Card, Vehicle details..., etc.

Keywords— Barcode Generator, Reader, Scanner, GSM, Smartcard, E-Governance, UID, IIS.

I. INTRODUCTION

The person's entire information can be stored in the Server Database by using Manual document was seeding from the Humans. Then the Administrator generates the Unique Barcode ID to each person by using the Barcode Generator.

Administrators only having the full rights to retrieve user information, add the New Person details, Modify & delete the Particular information on the Database Server, The Bar Code Generation, allocate the permission to all supervisors and Check the Status of Humans. The concern Supervisor has rights to view the Person Information at the Time of checking.

II. NEED FOR THE SYSTEM

In this paper, we bring the concept of implementing different applications together in one smart card. Thus, the user need not carry different cards for different purposes. The person can carry one card and can use the same card for different purposes. In this paper, we are introducing a smart card, which will work for different purposes like as Profile, Voter Identity, Passport, Aadhaar, Pan Card, Vehicle details..., etc. It will also work as a personal ID.

Multipurpose smart card (using Bar code) would give identification services and make data processing and data transfer more efficient and secure. Existing application involves various modes of transport where a Supervisor at each sector has to read and checks the user data. In the proposed system, data transactions would be recorded in the Barcode Reader and those data can be easily retrieved by providing the card number, which can be certain information

or whole user information. Different Bar code cards are used for different purposes.

Storing multiple user information in the Database IIS Server would not just help the government to track down individuals, but would make life far easier for citizens as they would not have to submit multiple documents each time they want to avail the public, private and government sectors.

III. SALIENT FEATURES OF THE SYSTEM

The following salient features are given below,

- Provide Very Low Time Consistency.
- Avoid carrying handful of documents to every places.
- Data is highly secure.
- At most all of the user information is retrieved by scanning this smart card.
- Can quickly view the requested data.
- Easy to manage.
- This system is controlled remote operation.
- Easy to access data of different category.
- Use of bar code separates security controls on each authority person.
- Data retrieval is possible at anytime, from anywhere.

IV. SMART CARD READER - WRITER

Smart Card Readers are also known as card programmers (because they can write to a card) Thermal transfer printers use a heated print head to create an image on a label. Thermal transfer printing is noted for creating crisp, often glossy images and barcodes using a thin ribbon roll that, when heated by the print head, melts onto the label the desired image.

Code 128 is the best code to use when all 128 ASCII characters are needed. It is a four level code, meaning that bars and spaces can have four different widths. There are actually three versions of Code 128. The A version encodes all upper case alphanumeric characters plus all of the ASCII control characters. The B version encodes all upper and lower case alphanumeric characters. The C version encodes numbers only. It is possible to switch between character sets within the code by using shift characters. The advantage of Code 128 is

that it can encode all ASCII characters in the shortest possible code length.

V. DATA FLOW DIAGRAM

A. DFD -0 Diagram

DFD LEVEL 0

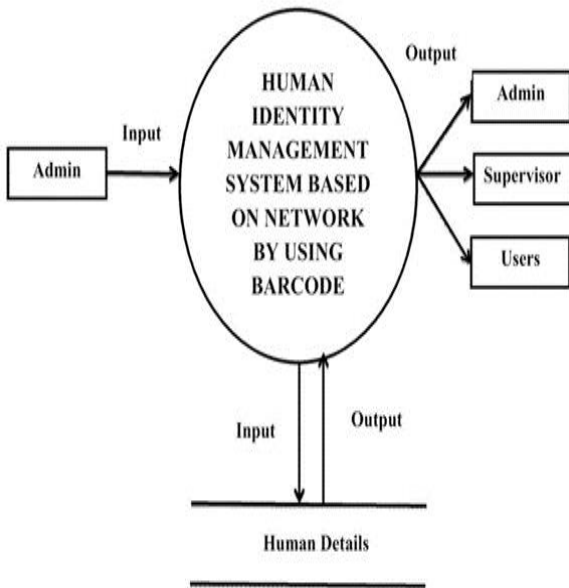


Fig.1. DFD-0 level diagram

B. DFD - 1 Diagram

DFD LEVEL 1

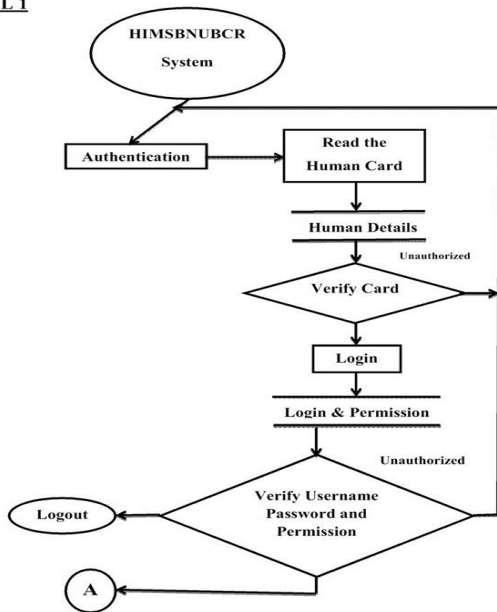


Fig.2. DFD - 1 level Diagram

DFD - 1 Diagram

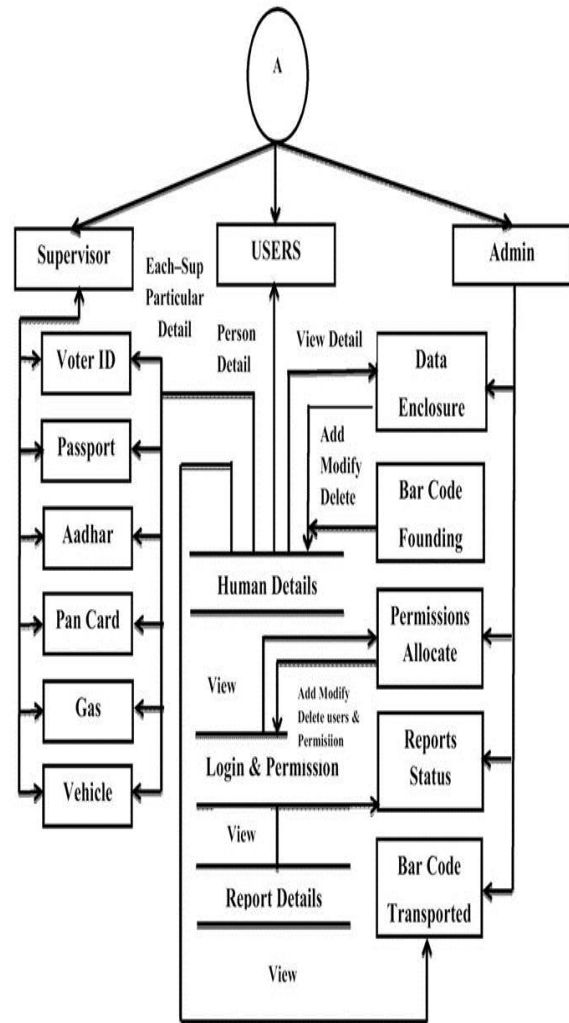


Fig.2. DFD-1 level diagram

VI. CONCLUSION

This paper proposes the concept if a Single card, which will server different purpose like Voter, Passport, Aadhaar, Pan Card, Vehicle details..., etc. It can also work as a personal ID Card.

It demonstrates the idea of different applications working in a single card through the Network. After the implementation of the system using Code 128-1d, Barcode ID will be issued to each citizen. Thus, leaving behind the dilemma of carrying multiple documents to various places, whenever they go.

VII. AUTHORS



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