

FORM 2
THE PATENT ACT 1970
(39 OF 1970)
AND
The patent rules, 2003
COMPLETE SPECIFICATION
(See section 10: rule 13)

1. TITLE OF INVENTION

Internet of Things [IoT] enabled multipurpose card

2. APPLICANT(S)

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3. PREAMBLE TO THE DESCRIPTION

COMPLETE

Following specification particularly describes the invention and the manner in which it is to be performed.

4. DESCRIPTION

FIELD OF THE INVENTION

The Invention relates to integrates every individual data like employee details, Pan Card details, Certificates, Bank details, Ration Card details, Employee Cards and others into a Single Multipurpose Card .This will help the persons to use this Single Multipurpose Card for doing all the activities in daily life.

This Consists of Unique Id (like Aadhaar) where all the documents related to his life will integrate to it.

Here the data of a individual person will be stored in a cloud .From that cloud the data can be accessed by reading the barcode of a Multipurpose Card with the OTP authentication System. By using this Card we can avoid holding many cards like ATM, Pan Card, Aadhaar, Driving license etc.

PRIOR ART

In day to day life the usage of Smart Card becomes Very essential .We use the Smart Cards in the places like withdrawing money, showing the driving license, in Shopping, to buy a ticket etc.

In Existing Systems Multipurpose IC Cards was used for storing the many applications (DE69827405T2). Here the Card is a made up of a plastic with a semiconductor chip in Credit Card size which enables communicate with others.

Here for authentication purpose cryptographic authentication was used in (US6609655P1). A Smart Card was used to utilize the financial Service while travelling and entrainment related works. Here the payments will be communicated automatically by contact or contactless interface at tolls or fares or fees.

In (KR20000010562U) dimension is a multipurpose wallet. Here IC was used with wireless radio frequency technology with battery was field this will be communicated wirelessly. In (US6708893B2) smart card with triple secured algorithm for exchanging the data was field with this security was provided while communicating the model of client server applications.

DISADVANTAGES OF EXISTING SYSTEM:

Existing System has few disadvantages like:

- No usage of cloud for storing the data of a individual person .
- No OTP authentication was used in sincerely.
- Not all individual details was interconnected to a Single Card.

OBJECTIVES:

1. To design and develop a multipurpose card which can integrate all human being data.
2. To use the OTP mechanism for accessing the individual data.
3. To use the cloud technology to store the data.

STATEMENT:

Accordingly a novel IOT enabled multipurpose card, provides facility for individual human being to communicate their own data by using the OTP mechanism in day to day activities like with drawing a money , identity proofs , Assets , Assets proofs, transactions of a bank, vehicle details , home details etc. of any individual user.

BRIEF DESCRIPTION OF THE DRAWINGS:

Based on the key idea of the invention discussed above will draw the following drawings which will clearly illustrated the proposed system with the help of the unique id phone number/Aadhaar number all the details of individual human being

is integrated in to a single card where it can be used as a multipurpose card in all the daily activities.

Fig.1 illustrates the overall System of this invention.

Multipurpose Card:

It is a chip embedded card with memory card to store barcode that which integrates with the cloud based on the unique id or mobile number to integrate any details of an corresponding individual person. It consists of a unique id.

The individual details like Ration Card, Aadhaar Card, ATM machine , Birth Certificate , Pan Card, Employee details, Assets Details and others is integrated to this card .which enables the individual to access that details in every time in every place with the authentication of OTP .

Cloud:

It is used to store all the individual details as mention above and integrated to the multipurpose card with the help of the unique id or mobile number.

It can be accessed only, when the OTP that enters the customer matches to the number that which send to the registered mobile.

Barcode Scanner:

This is a Hardware device which is used to scan the multipurpose card whenever the user requires accessing their details.

Website:

The User can access their individual details in the website at the time of filling applications by entering the unique id of the multipurpose card.

Generate OTP:

It is a module used to generate the OTP whenever we Tap the card near the barcode Scanner or by entering the multipurpose card id number and that generated OTP will go to the unique id /mobile number of this registered details .By entering that OTP in the website or near the barcode reader the respected to authorities can be able to access the individual details.

The Figure 2 represents the way of sending the OTP to the registered mobile number and accessing the individual details by entering that OTP in to the barcode are in the website.

DETAILED DESCRIPTION:

The proposed system multipurpose card will used as a single card that which can access all the individual details of a person in the required situations based on the technologies like cloud and OTP mechanism .It helps the every individual in the word to access their details by simply caring this card .

This can be done in three modules.

1. Generating unique id to the multipurpose Card and to integrate with the cloud.
2. Creating the cloud storage for every individual for storing their personal details from birth to death.
3. Sending the OTP mechanism for authentication purpose to access their data.

Module 1:

The Chip embedded with cloud link of ever individual with their personal details with unique number/mobile number is implanted to the smart card. Barcode detection reader/writer device should be integrated with in the card. Personal cloud id (link) with that unique number should be integrated .The links of the personal details in the cloud should be embedded to this multipurpose card.

Module 2:

For every individual the cloud storage should be detected to them for storing their all details from birth to death the personal details like Ration Card, Adhaar Card, ATM machine, Birth Certificate, Pan Card, Employee details, Assets Details etc. This all details that stored in the cloud should be access by the individual with the help of the multipurpose card by using the authentication OTP mechanism.

Module 3:

Whenever the user enters the unique multipurpose card number or tab that cards to the barcode reader it should automatically ask to enter for the OTP that which send to the

registered mobile number .If the OTP is right then the user can accessed their personal details.

CLAIMS

We claim:

1. Placing the chip that links to the cloud that consists of the personal details of individual with the unique number.
 - 1.1. Barcode device was embedded to that card to generate the OTP.
 - 1.2. All personal details of the cloud links should be opened after entering the OTP.
2. Creating a cloud storage space to store personal details of every individual.
 - 2.1. Cloud access can be done only based on the OTP authentication mechanism.
3. Based on the registered mobile number, the OTP will send to corresponding mobile number with the OTP mechanism, then the cloud storage details can be accessed.

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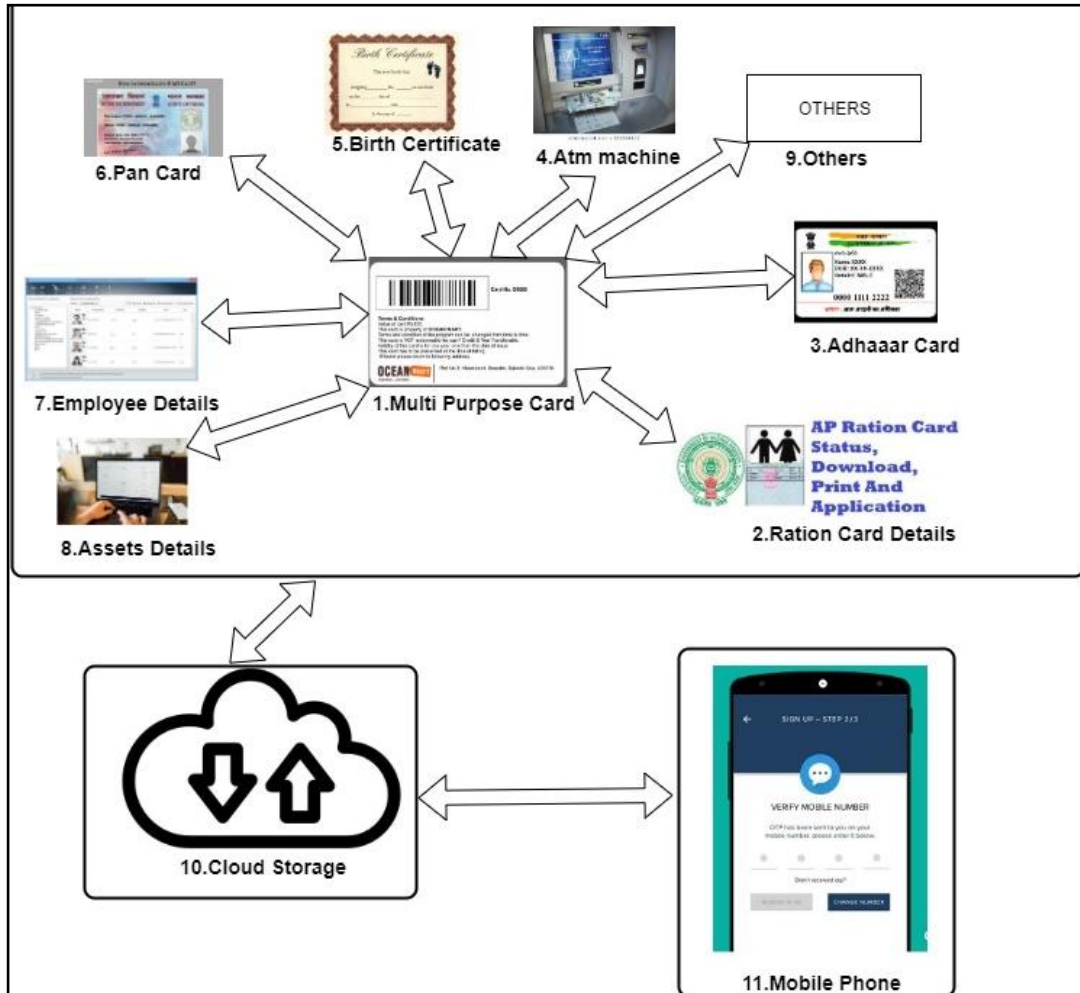


Figure 1 illustrates the overall System of this invention

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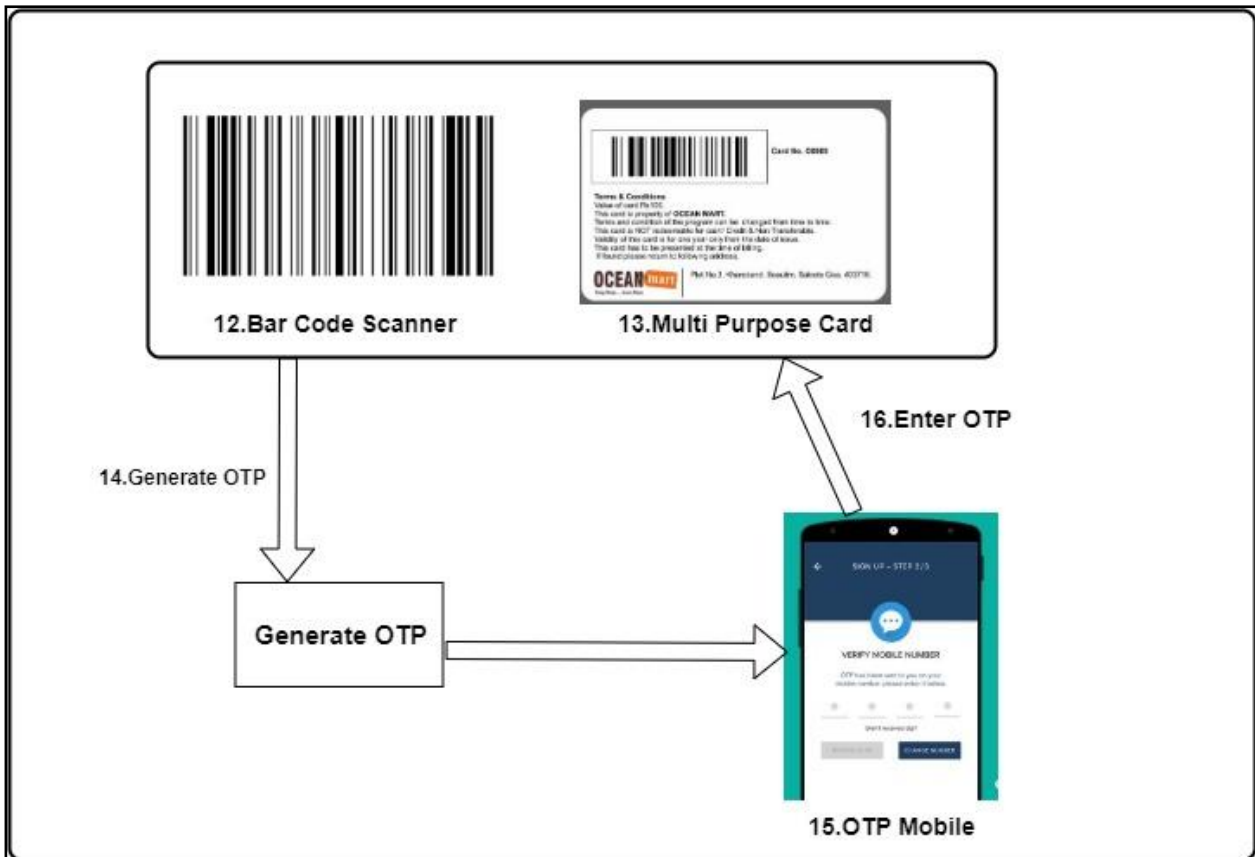
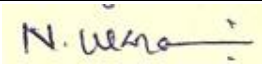
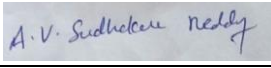
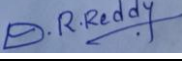
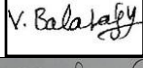
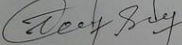


Figure 2 process of accessing the data of an individual

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ABSTRACT

In everyday life carrying a cards is essential for every individual .The cards like Ration Card, Aadhaar Card, ATM machine, Birth Certificate, Pan Card, Employee details, Assets Details etc..is mandatory to fill any application are to do any tasks. The carrying of all this cards every day and every time for every individual is every difficult tasks instead of carrying a too many cards .Carrying a single multipurpose card is faceable. The Purposed system is a technology with IOT that which can put all the cards in a single place and can be used with a single card.

The purposed multipurpose card as a unique id that integrated with the cloud which enables to access all the individual details by using the OTP authentication mechanism .This system will leads to carry a single card for all their daily activities.

(Mr. Vikram Neerugatti)

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