

## Multiple Sector Identification Using Unique Reference Key

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**Abstract**— Using NoSQL storage like MongoDB, users can remotely store their data and enjoy the on-demand high quality applications and services from a shared pool of configurable computing resources, without the burden of local data storage and maintenance. The Unique ID system provides unique identification numbers to Indian residents. Unique key 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 a new public, private and government service. This system will contain personal details like name, address, marital status, photo, identification mark and fingerprint biometric. The unique key will be in the form of 6 digit alphanumeric number to provide more security. This system helps to manage persons needs in his/her life span by using a unique reference key i.e. the number is used as valid key and it will fetch only the required details from the central database. This system will create government jobs for computer sector in the development, implementation and maintenance of the UID system. A single unique key is used therefore decreasing manual labour and increasing efficiency as every detail is available on the single click and reducing the efforts in maintaining different databases.

**Keywords**-unique reference key, unique ID, sector, MEAN etc.

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### I. INTRODUCTION

The project is on the “**Multiple Sector Identification Using Unique Reference Key**”. The objective of developing of such a computerization system is to reduce the paper work and save of time. There by increasing the efficiency and decreasing the work load. This project carried out for a full computerized system. The modification is customized so it is not necessary to change the complete project. Project is customized i.e. any change or modification in database may be perform easily.

This system is to provide a unique ID to each and every citizen of India while carrying him/her original documents such as birth certificate, Adhaar card etc. Unique reference key will be provided to every user after registration. Later on they can change their password. Once they enter the site they can access the information as per their sectors. Authorized users can verify details him/her from the database for issuing student admission etc.

### II. EXISTING SYSTEM

Now a day's our world is becoming totally digital world as per developing techniques. Even though the world is digiworld there are some sectors which are not aware from these technologies. Not only in rural areas but also in urban areas, people have to carry the documents which are taking large time. So this problem can be avoided by digital technologies.

As, the documents are more important for registration like (educational purpose, or in LPG agency). For such processes, if any document is left whole work is delayed. We can't afford such a delay for registration as they have some validity.



Fig: old documentation process

### III. PROPOSED SYSTEM

As we mentioned existing problem of documents, we find solution for this which is nothing but "Multiple Sector Identification Using Unique Reference Key".

As per this approach user has to upload their documents to our "YOUR DIGIWORLD" once, as per the sectors operator's requirements they access the documents from Your DigiWorld portal.



Fig: Your "DigiWorld"

### IV. MODULES

The term **MEAN stack** refers to a collection of JavaScript based technologies used to develop web applications. **MEAN** is an acronym for MongoDB, ExpressJS, AngularJS and Node.js. From client to server to database, **MEAN** is full **stack** JavaScript.

The key components are:

- MongoDB (Database)
- ExpressJS (Web Framework)

- AngularJS (Front-end Framework)
- NodeJS (Application Server)

Advantages of Developing Apps with MEAN Stack:

- Isomorphic Coding is possible with MEAN
- High Speed and Reusability
- Open Source and Cloud Compatible
- MEAN uses JSON
- Cost effective
- Highly Flexible
- MEAN makes the switching between client and server easier

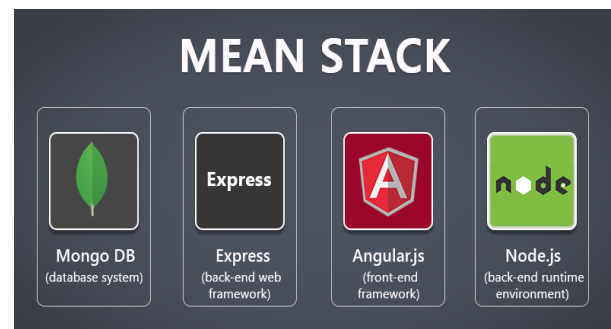


Fig: MEAN Stack

#### i) MongoDB:

MongoDB is a cross-platform, document oriented database that provides, high performance, high availability, and easy scalability. MongoDB works on concept of collection and document. Collection is a group of MongoDB documents. A collection exists within a single database. Documents within a collection can have different fields. A document is a set of key-value pairs. Documents have dynamic schema.

#### ii) ExpressJS:

ExpressJS is a web application framework that provides you with a simple API to build websites, web apps and back ends. With ExpressJS, you need not worry about low level protocols, processes, etc. Express provides a minimal interface to build our applications. It provides us the tools that are required to build our app. It is flexible as there are numerous modules available on npm, which can be directly plugged into Express.

#### iii) AngularJS:

AngularJS is an open source, JavaScript based web application development framework. Definition of AngularJS as put by its AngularJS is a structural framework for dynamic web applications. It lets you use HTML as your template language and lets you extend HTML's syntax to express your application components clearly and succinctly. Its data binding

and dependency injection eliminate much of the code you currently have to write. And it all happens within the browser, making it an ideal partner with any server technology.

**iv)NodeJS:**

Node.js is an open-source, cross-platform JavaScript run-time environment for executing JavaScript code server-side. Node.js enables JavaScript to be used for server-side scripting, and runs scripts server-side to produce dynamic web page content before the page is sent to the user's web browser.

These 4 combine together into one effective package:-

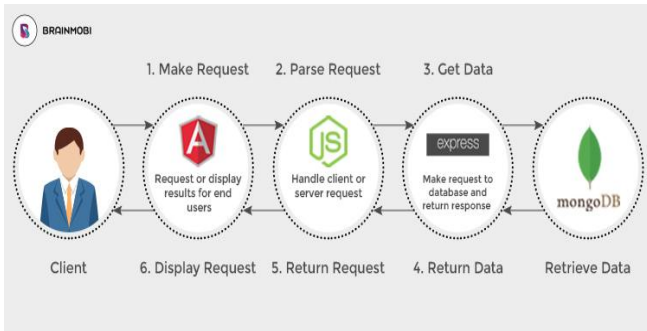


Fig: MEAN Stack Development Process

**1. By User:-**

At the time of registration user can fill all information at once. After registration user will use services which they want.

**2. By Super Admin:-**

Super admin provide the authority to user for registration. It collect the all information given by the user and store to the central database. And provide unique reference key to user after their new registration.

**3. By Sector Operator:-**

They will retrieve only required information after the validation of reference key and store this information to their database.

**V. SYSTEM DESIGN**

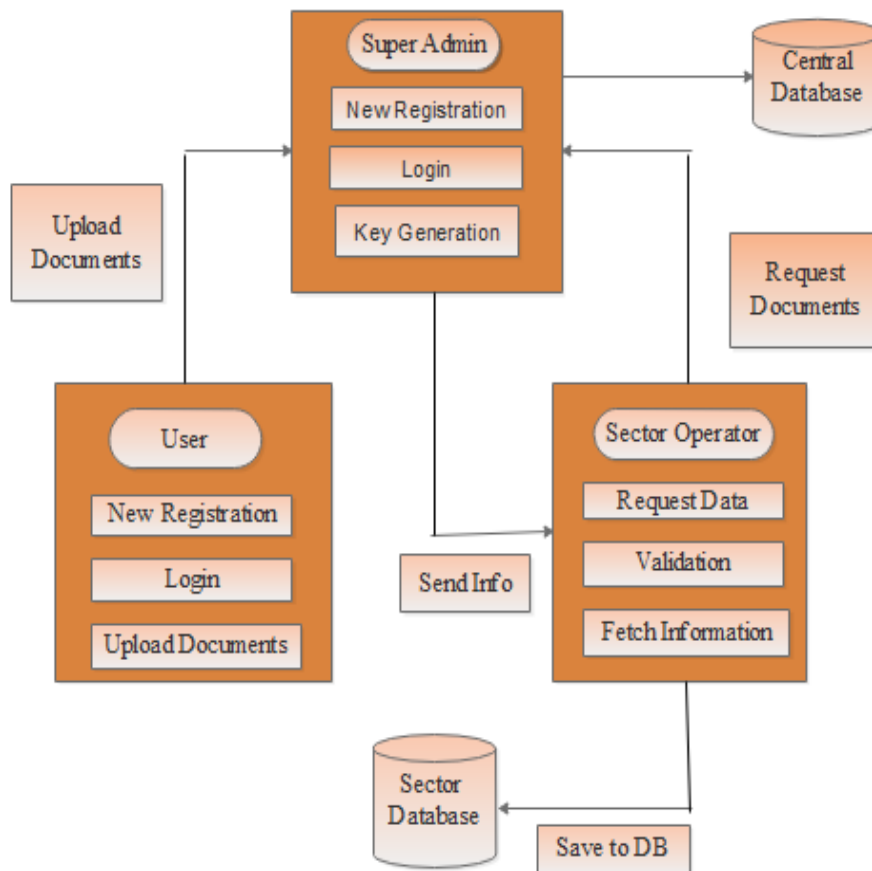


Fig: System Architecture

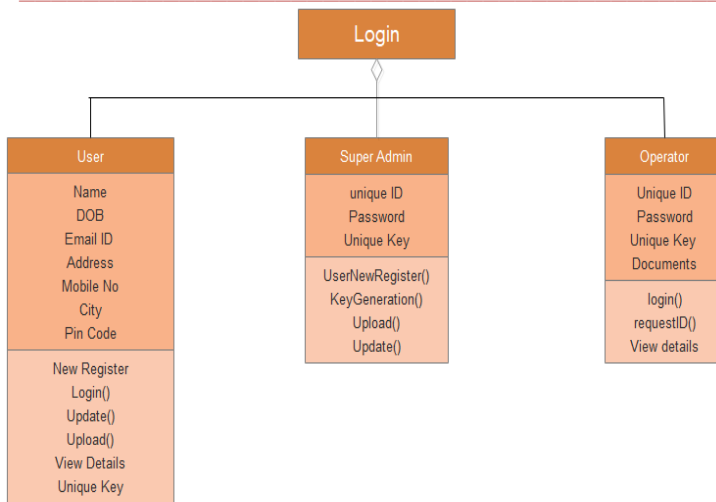


Fig: Class Diagram

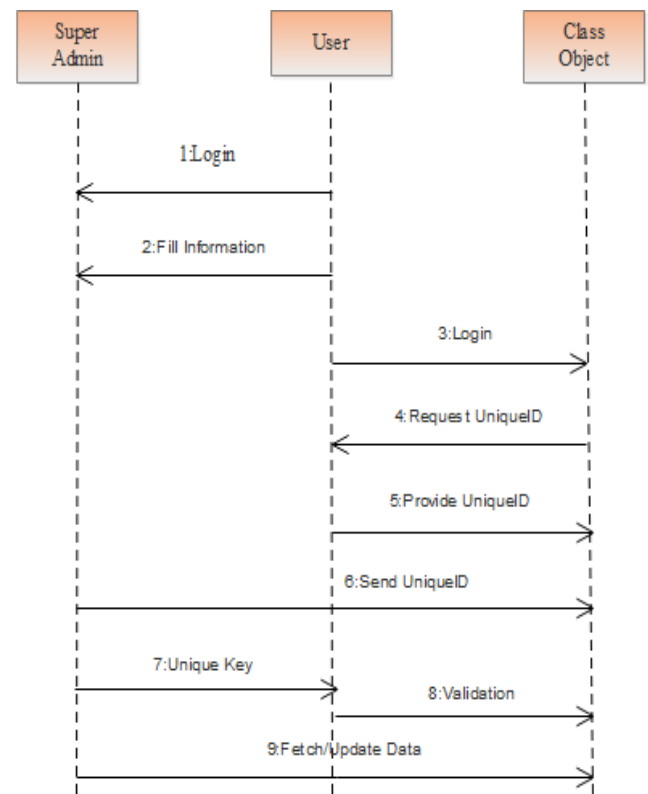


Fig: Sequence Diagram

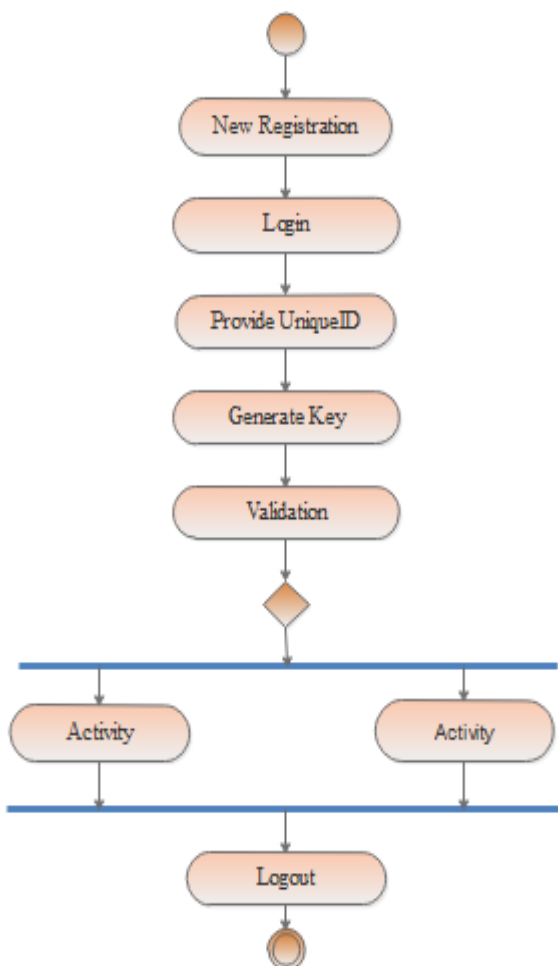


Fig: Activity Diagram

## VII. CONCLUSION

This whole system is developed for the documentation purpose. The problem related to the documentation is that, at any sector for the registration, we have to carry the documents.

Finally, we conclude that, we have to establish such type of system where, all the documents are get collected together. Here we only collect some basic information, in future we can upload the documents also in image form.

By using this approach, we have to register the information at single time. After that we have to provide an unique id. Based on that id, the operator access the information.

## VI. FUTURE PROSPECT

As multiple sectors require the documentation section. For each registration process we need the documents. This approach used for education sector information. Means the student fill up the total information related to the education. And that get stored to the database which is MongoDB.

The future prospect is that, we can use this method of registration for multiple sectors. As in future, the various technologies will be get developed and our system must get support to that technologies. So here, we uses an smart technologies as nodejs, angularjs and most important part is that we uses an MongoDB for storage purpose. If we uses a

Google cloud, it get paid and may costly. But the MongoDB is vast platform for the storage purpose. As number of users can interact with the databases.

So, even though the new technologies are developed, our project support for that techniques. The multiple sectors like LPG sector, student bus pass sections, grampanchayat etc. we can develop the system. We have to only add the type of details as per the requirements.

## VII. ACKNOWLEDGEMENT

Authors would like to thankfully acknowledge the department of CSE, Computer Science & Engineering Adarsh Institute of Technology & Research Centre, vita.

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