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## Validation and generation of judicial certificate

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### ABSTRACT

*E-Governance system' will be an online platform for the deliverance of Government to Citizen Services and storage of digital certificates, documents, etc. The system consists of a website which can be linked with different websites of various government departments. In this Project, the Documents will be generated by the system and verified by the authority entitled for the same. Generated certificate will pass on to the user. Certificates show the identity of an individual for a certain purpose, e.g. a driver's license identifies a person who can legally drive in a particular country. Likewise, a Digital Certificate can be presented electronically to prove your identity or one's right to access information or services. Document Validation will be provided at the user end where he wants to apply for certain governments documents like Pan Card and Licenses.*

**Keywords**— E-governance, Digital certificates, Document validation

### 1. INTRODUCTION

Certificates serve as an identity of an individual and one's right to access any service. Imagine a person who urgently wants a particular certificate from some government authority and had never visited a government office before. He visits that government office and sees a huge rush and lengthy queues and moves from counter to counter enquiring how he can acquire that certificate. Visiting a government office to seek service is cumbersome. Thus arise a need of E-Governance system where Government to Citizen Services will be provided over electronic system and Internet which is convenient for citizens as well as government officers. This system will consist of a website having various facility for every user. There will be a cloud repository from where a memory will be allocated to every user. A user will have to Register on this system and use this login credentials to apply for a certificate on other Website. The certificate authority will then process the application and will then upload the E-Certificate to the user account which can be accessed directly. The idea is to allow services on a single location while applied from different locations. Thus the process is no more time consuming like the traditional way to acquire certificates from government offices. Moreover, Government authority thus delivers E-Certificate on Digital Vault from where a user can access, download and print this certificates which are digitally signed and verified by the Government agent appointed for the same. These certificates will have a digital signature and will be self-attested.

#### 1.1 Background

Certificates are acceptable as Proof of Identity, Proof of Address and Proof of Date of Birth as per Rule 114 of Income Tax Rules, 1962. In order to get any certificate office one need to visit the nearby Tehsil office or SDM office. Get the application form for required certificate and fill the personal details. In some certificates, one need to fill the details of his/her father's document. If he is no more, the applicant needs to provide your blood relatives documents. Also, the applicant needs to fill and sign the self-declaration part. Once the application form is filled, then submit the original form along with required self-attested documents to the officer. We need to always keep the original documents with you for further verifications from officers. In General, it will take 30-35 days of time to get the certificate from the office. All this process can be avoided by applying online for the certificate. 'E-governance' system provides such facility.

#### 1.2 Motivation

Previously certificates are generated manually, where the user has to go from department to department performing various formalities and still didn't get required certificate on time. In order to overcome such a problem an online validation and generation of a judicial certificate system to be developed.

### 1.3 Problem statement

Certificates serve as proof of an individual's identity or one's right to access information or services. Generating certificates offline from the government offices is quite cumbersome. Hence, there is need for an online system which can overcome this problem. Developing an online portal which can generate user requested certificate within a specific period and also providing security to their sensitive data.

## 2. SYSTEM OBJECTIVE

The Primary objectives of the project are to simplify the process of accessing government to citizen services and make it hassle-free.

- A step towards the paperless world.
- Ensure Authenticity of the e-documents and thereby eliminating the usage of fake documents.
- Secure access to issued documents through a web portal.
- Reduce the administrative overhead of government departments and agencies to make it easy for the residents to receive services anytime and from anywhere access to the documents.

## 3. LITERATURE SURVEY

The Literature survey for the project identifies the need for the project and also the work is done relating to the project. Techniques used to guide the implementation project are also mentioned. To many of us, it's always been a hectic task to get the judicial document ready. The Government System constantly has been changing its protocols to issue the judicial certificates conveniently still it's a big hurdle for especially students and Government Employees. In the paper "Document Validation and Verification System" by Samit Shivadekar, Stephen Raj Abraham and Sheikh Khalid a platform for the deliverance of Government to Citizen Services and storage of documents has been done. On June 16, 2017, Ako Muhamad Abdullah published a paper, Advanced Encryption Standard (AES) Algorithm to Encrypt and Decrypt Data which is one of the most common and widely symmetric block cypher algorithm used in worldwide. Likewise, we had an inception of taking this platform online and making the system convenient for all. In this era of the internet, it's widely available almost everywhere and we can absolutely take huge advantage of this! We have an idea of having an online portal for validating and generating the judicial certificates.

## 4. PROPOSED SYSTEM

### 4.1 Document validation

The proposed system will consist of three portal. The first portal will have a registration/login component for authentication of users. The users on this portal will be both administration team as well as normal users seeking service. User will upload all required documents and the uploaded document will be checked for validation at the second portal. A document like Adhaar Card will be verified through an OTP. Other various documents will be checked through the database.

### 4.2 Document generation

The validated document will be sent further to the third portal. At the third portal, the user required certificate will get generated. All the sensitive information of the user will be stored in the database in the encrypted form and their respective key will be stored differently as a security point of view. For generating user required certificate, he/she must provide all the necessary documentation as required otherwise the certificate generation request will be rejected by the system. Generated certificate will be provided to the user through e-mail.

## 5. SYSTEM DESIGN

The system design provides a deep understanding and procedure details necessary for implementing our system. Design is a meaningful engineering representation of the system that is to be built. It can be traced to a customer's requirements and at the same time assessed for quality. AES encryption method is used as security purpose.

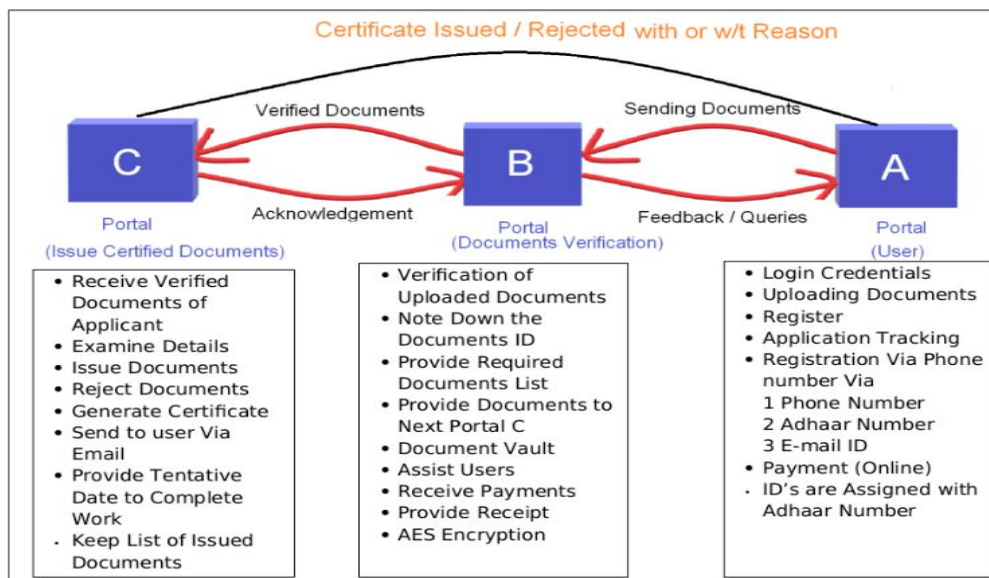


Fig. 1: System architecture

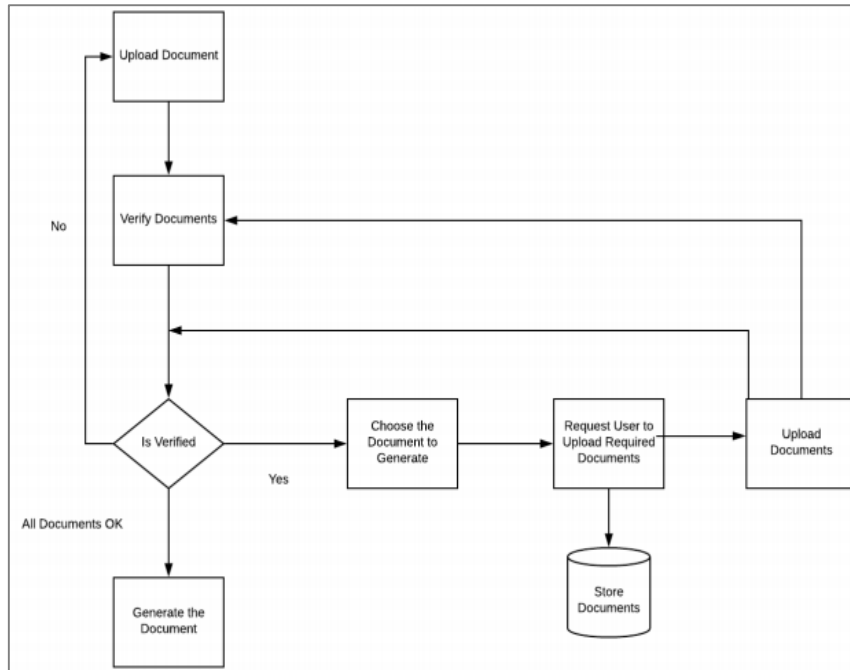


Fig. 2: Dataflow diagram

## 6. CONCLUSION

We are able to design a system consist of three portal. The first portal will have a registration/login component for authentication of users. User will upload all required documents and the uploaded document will be checked for validation at the second portal and sent further to the third portal, where user required certificate will get generated and same will be provided to the user through e-mail.

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