

Study on Digital-Signatures and Remote Online Notarization

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Abstract: *Digital-Signatures and Remote Online Notarization application provides secure electronic notarization functionality to the notary attorneys, and anyone in need of certifying electronic documents. E-notary software offers first-class security and convenience for both businesses and consumers who regularly deal with notarization. The software also provides transparent access to documents that are queued to be countersigned as well as the people who have been granted access to sensitive documents. E-notary software can be used by any organization and professional that preliminary needed notarization; a limited cases of the documents that e-notary results can legalize includes property deeds, agreements, and affidavits, among others. Benefits of e-notary application includes saving time and resources preliminary allocated to the notarization process, furnishing inspection trails, and supporting the data integrity of sensitive documents. Certain e-notary results grease web conferencing functionality to allow for remote notarization.*

Keywords: E-Notary, Digital-Signatures, Digital Signatures, Remote Online Notarization, Law, Contract Management Software, etc.

I. INTRODUCTION

E-Notary advances signs and notarization into the digital age with a robust e-Sign and remote online notarization (RON) result. Now you can securely sign, manage Affidavits / Notary, Contracts & Agreements and other legally binding documents in a trusted, online environment. E-Notary's approved and certified tool does not require software downloads or hardware purchases, All we need to access to this electronic notarization is the internet and a standard browser.

In this System, a user visiting the site can fill up the form and make request to make the affidavit, notary, contracts and agreements, etc according to their needs by filling up the necessary details in respective category field. The user may select the predefined category i.e., Affidavits for Name Change, Domicile Affidavits, Marriage Registration, Affidavits for Anti Ragging, Rental Agreements for Properties, etc. The user may request for new services as per their needs. Once the user fills up the form with necessary details and documents, it gets registered to our database and the process begins. Once the document is prepared, you can either visit the office on your own or simply opt for doorstep delivery by paying the charges online or at the delivery time, wherein, our team will print the legal document on required Stamp paper of the requisite amount and deliver it to you at the place of your choice.

II. LITERATURE REVIEW

Remote Online Notarization: A Tool to Insure Business Continuation During COVID-19

For decades, states commissioned notaries to conduct traditional notarial acts, where the notary and the signer are face-to-face, the notary verifies the signer's identity by checking an official identification document (ID) presented by the signer, the notary confirms the signer's awareness of the document and that the signer is executing the document of his/her own free will, the signer physically signs the document (a "wet signature"), and the notary attaches his/her official notarial seal to the document evidencing that each of these events took place.

RONs take notarizations one step further. It allows legal tasks to be conducted online, meaning the notaries and the signers may be at different localities. For illustration, under the lately legislated US law, the notary could be in his/ her home and the signer (the "Remote Individual") could be in his/ her home or place of employment in a different city, state, or maybe country (subject to certain conditions). In this current situation, when every person is being ordered to stay at home and exercise social distancing, it is easy to see why the movement toward allowing RONs has been accelerating. Countries like India, USA, etc are now preferring the RON's as compared to the traditional way of Notarization.

III. PROBLEM DEFINITION AND OBJECTIVES

3.1 Existing System and its Disadvantages

In the present scenario, people have to physically visit to the advocate's office in order to make affidavit for school, colleges or any other purposes, and have to provide all the necessary details. It consumes times, cost etc. The traditional procedure is not efficient enough for the client/customers as well as for the lawyer/advocates as they have to wait in order to get it done. Maintaining the records of the data is another tedious work to do. It is also full of risk as anyone can access and modify the data.

The main objective is to automate the existing system i.e., traditional way of making Affidavit/Notary and Maintaining its records. It helps the customer to saves both time and travelling cost and helps the Lawyer/Advocate to expand their customers/clients (can reach maximum number of people) as it will be open 24/7.



Fig.1 Context Level of the System

3.2 Proposed System

- This system will give access to user to request legal services (Affidavit, Contracts and Agreements) online instead of physically visiting the advocate's office.
- It cuts down the travelling cost and time for the user.
- It helps the Lawyer/Advocate to expand their customers/clients (can reach maximum number of people) as it will be open 24/7.
- This platform is easy to use, user friendly, reliable & secured.
- The proposed system is a one-stop solution for the user to gets his/her Legal Services done.

3.3 Survey of Technology

For this project development we have used HTML5, CSS 3, and JavaScript, Bootstrap, Tailwind, PHP, MySQL.

- **HTML:** The HTML protocol can be used to design the basic web LAYOUTS. Our Webpage contain headings, paragraphs, images, videos, and many other types of data. We are using HTML elements to specify what kind of information each item on a web page contains — for instance, the “p” element indicates a paragraph. We can also write HTML code to specify how different items relate to one another in the overall structure of the page.
- **JAVASCRIPT:** A client-side script is a programming language that runs fully on the client's system and does not require communication with the server to work. If you have a Web page open on your computer and your Internet service provider goes down, you can still interact with the Web pages that are already open in your browser. You will not, however, be able to access any remote data or go to new Web pages. While JavaScript is a client-side language, it has asynchronous interaction with a distant server as one of its most powerful capabilities. Asynchronous simply implies that JavaScript can connect with the server in the background without interfering with the forefront user interaction.
- **CSS:** CSS (Cascading Style Sheets) is used to style and layout web pages, such as changing the font, colour, size, and spacing of text, splitting it into numerous columns, and adding animations and other decorative features.
- **Tailwind CSS:** Tailwind CSS is principally a mileage-first CSS framework for fleetly assembling custom user interfaces. It's a big-time customizable, low- position CSS framework that gives you all of the structure blocks you need to make bespoke designs without any annoying opinioned styles you have to fight to stamp.
- **PHP:** Since PHP is open source, the cost of developing our product will be decreased. When compared to other server-side scripting languages, it is simple. Our project will be linked to a database, and it is simple to connect a php script to a database, and it secures the connection.
- **MySQL:** MySQL: We want to keep our project simple and fast; our aim is to reduce complexity and keep things

simple and secure. MySQL is very helpful when it comes to fast, reliable, and secure databases. MySQL is the most secure and dependable database management system available, and it's used in popular web applications like WordPress, Drupal, Joomla, Facebook, and Twitter. Whereas MongoDB and Oracle DB are more complex than MySQL. MySQL is compatible with any programming language it can be easily connected.

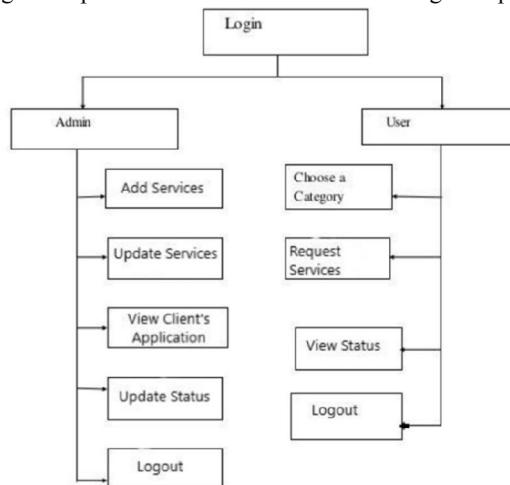
IV. METHODOLOGY

4.1 Process Model used – Waterfall Model

The Waterfall model represents a breakdown of software design conditioning in a direct successional phase. Each phase of this model relies on the deliverables of the former phase, and it corresponds to the particular aspects of the tasks. The first software process model that was introduced is Waterfall model. This model is extremely easy to understand by the software engineers and developers.

Each phase of this model is completed before subsequent phase to avoid the overlapping among the multiple phases. The Waterfall model illustrates the software process during a linear sequential flow, which suggests that any face of the entire process begins as long as the previous phase is completed. The approach of this model is typical for many of the areas of software engineering design.

It goes from Requirements > Design > Implementation > Verification/Testing > Deployment > Maintenance.



4.2 Online Notarization Procedures

To do an online notarization, an Indian notary public must be physically present within the Indian borders at the time of the notarization. The signing party (or principal) can, however, be located anywhere. If you have any questions regarding notarizing a document, you should contact the person who created it and ask them to answer any queries you may have. Other than the part of the document holding the notarial certificate, it is not the notary's role to alter the document. Please be aware that because the document presented to you is an electronic document, you may not be able to make changes to a notarial certificate as you would with a paper document when doing an online notarization.



Fig.2. The Working of the system



Because there is no statute that addresses this issue, you may want to return the certificate to the drafter and request that they modify the necessary other information that is inaccurate. According to the Indian notarization law, an online notary public may only use his or her electronic signature to make online notarizations. You would sign the notarial certificate in the typical manner if you were notarizing a paper document (face-to-face with a signer who is physically present before you).

1. **Creating Affidavit:** Once the user has successfully logged- in on the E-Notary Platform, User will be redirected to the services offered by the E-notary, and here the user can select the services as per his/her needs.
2. **Providing Necessary Details:** Here, the user will be given a form where he/she will have to fill-up their details for the flow of the operation as well as they will have to attach the required documents for the further purposes.
3. **Review and Make Payment:** Once all the required form is filled up, the request will be sent to our executive team and we will create the documents as per your need and once the creation process gets over, we will send back to you to through our platform review and ask for changes accordingly if there's any. If there are no changes then you can proceed for the payment option.
4. **Creation of Tangible documents:** At this step, our executive will print your documents on stamp paper and will wrap up for the delivery.
5. **Delivery of your Documents:** The Final step is to deliver your required documents to you.

V. FUTURE ASPECTS

1. We can add some more additional features to this project like Legal Court Support.
2. SMS based alert system can be added for the application status.
3. Pre-Built Forms can be added for different categories.
4. Different Legal Services features may also be added in coming future

VI. CONCLUSION

In this paper, we compactly explained the provocation of the work at first. Also, we illustrated the literacy and performance tasks of the model. Using basic tools and simplified technology techniques the method has achieved reasonably high accuracy. It can be used for a variety of applications of the government sector as well as a lawyer can use it to expand and simplify their services. This project helps in understanding the creation of an interactive web application and the technologies used to implement it.

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