

Certificate Issue System Using Php and Mysql

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ABSTRACT

By depending on paper-based or semi-digital methods, manual certificate issuance in administrations is frequently ineffective and prone to errors. Common problems include difficulties with verification, record loss, and duplication. PHP and MySQL are used in an automated certificate issue system that offers safe and precise online certificate creation, administration, and distribution in order to address these issues. PHP and MySQL power the frontend, while HTML, CSS, JavaScript, and Bootstrap create an intuitive user interface. AJAX enhances responsiveness. PHP sessions are used for role-based access and authentication to enforce security. TCPDF is used to dynamically create certificates in PDF format, guaranteeing consistency and expertise. Administrators can use a web dashboard to assign unique IDs to each certificate, choose templates, and upload recipient information. Additionally, users and third parties can easily verify these IDs. The portal offers certificates for download, and they can also be sent by email. A verification module uses UID input to guarantee authenticity. Future additions, like blockchain integration, are supported by the system's modular design. Turnaround time, human error, and paperwork are all decreased with this solution. It makes certificate issuance more accessible while improving security and dependability.

Keywords: HTML, CSS, PHP, MySQL, AJAX, Bootstrap, TCPDF, and Blockchain Integration.

II: INTRODUCTION

A crucial legal procedure, birth registration guarantees that each child is acknowledged by the government and given access to fundamental rights and services. The official documentation of a child's birth by a designated government agency serves as the basis for the child's nationality and identity. Without birth registration, people might not be able to vote, open a bank account, obtain a passport, or receive healthcare and education. Many children are not registered at birth in Somaliland, which puts them at risk of losing access to essential services and legal protections. Accurate population data collection is hampered by this lack of documentation, which also makes it difficult to plan development and formulate policies. The ongoing and required process of vital registration, which includes birth records, aids in administrative planning and national statistics. On the other hand, manual birth registration systems are frequently ineffective and prone to mistakes. There is a lot of paperwork for administrative staff, delays are frequent, and record loss is a serious risk. An e-birth certificate system is suggested as a solution to these issues. The birth registration procedure will be digitalized by this

system, which will also decrease manual labor and increase accuracy overall. Birth certificates can now be issued electronically, reducing human error and expediting administrative work. The system's accessibility will be improved by automating this crucial function.

III.EXISTING SYSTEM

Birth certificates are issued manually under the current system, which necessitates applicants' in-person visits to government offices. Physical forms must be completed by applicants, and the Village Administrative Officer (VAO) must verify them before the certificate is granted. This approach takes a long time and requires a lot of paperwork. Physical record organization and maintenance are difficult and subject to human error. The absence of appropriate tracking mechanisms and centralized access makes data verification challenging. The system is prone to data loss and duplication in addition to being inefficient. The administrative load is increased by the need for manual intervention for any updates or modifications to records. Historical data retrieval becomes slow and laborious. The convenience of citizens and employee productivity are both impacted by this lack of digitization. In general, the current manual procedure is not scalable, accurate, or quick enough to meet the demands of contemporary administration.

IV.PROBLEM STATEMENT

The process of obtaining birth and death certificates is often slow and inconvenient, requiring individuals to visit government offices and handle extensive paperwork. Long queues and delays are common, making the experience frustrating for applicants. Tracking the status of applications is difficult due to the lack of a digital system. This manual process is not only time-consuming but also prone to human error. Government staff are burdened with processing large volumes of applications manually. Inefficiencies in the current system lead to delayed certificate issuance and data mismanagement. An online system is needed to streamline the process and improve accuracy.

V.PROPOSED SYSTEM

A digital application is introduced by the proposed system to expand the birth certificate registration procedure. Data entry and verification are automated, saving participants and government officials time. Parental, child, and Village Administrative Officer (VAO) data are stored in the application. Users can apply online for birth certificates after registering and logging in. By using this system, manual errors are reduced and paperwork is eliminated. It also makes it possible for quick data retrieval and simple maintenance. Centralized records ensure better data management and increase efficiency. In general, the system increases user convenience, accuracy, and speed.

VI. METHODOLOGY

Offering solutions to the current circumstances encountered in birth registration is the aim of this proposed project. to address the problems and challenges that citizens encounter when registering their births and subsequently interacting with government officials to obtain the certificate. In order to save both the government's and the citizen's time, the certificate can be obtained with ease. Consequently, the online system facilitates more efficient data collection, processing, and retrieval. It also makes it easier to store and manage paper-based certificates, which can be lost. If we need a certificate, we can obtain it online. This project would also give us a way to plan for the country by tracking changes in the birth

rate, which would allow us to make plans for the next generation of citizens. By using the reports option, extracting reports from the system, and creating charts to obtain quick information, population forecasting can be accomplished.

VII. MODULES

1. ADMIN PANEL

Admin Panel Login: By entering a special username and password, the administrator can access the online birth registration form as well as tools for viewing, confirming, reporting, and printing birth certificates.

Registration form: By completing a birth registration form, the administrator can add new entries on this page.

Dashboard: Gives the administrator a fast overview of applications that have been rejected, verified, and new, allowing them to act quickly.

View Details: The administrator can view all forms that have been submitted here and move forward with verifying them. The administrator can view and print birth certificates in the Certificates Section.

Profile: Allows the administrator's name and address to be updated, and displays the time and date of the initial login.

Settings: If necessary, there are options to reset the password in this section.

Logout: Enables the administrator to safely exit the portal.

2. USER PANEL

Login screen: Existing users can access the online birth registration form and certificate services by logging in with their username and password, while new users must register.

Registration form: By completing the online form, users can register for birth certificates.

View Details: Shows all of the user-submitted forms along with the status of their verification.

Certificates Section: After their approval, users can view and print their birth certificates.

Profile: Allows users to view the time and date of their initial login as well as edit their name and address.

Settings: This option allows users to change their password.

Logout: Offers a method for leaving the user account.

VIII. SYSTEM ARCHITECTURE

The system architecture is made up of several layers that cooperate to guarantee safe and easy certificate issuance and application. An easy-to-use interface allows users to register, apply for certificates, upload required files, and monitor the status of applicants. To guarantee authenticity, uploaded documents are verified manually or using rules. With real-time tracking, users can keep an eye on their application's development. Administrators can access and manage verified data for additional verification and management in a MySQL database. Additionally, the system interfaces with government systems to facilitate expedited approval procedures. Certificates are automatically generated after verification and made available for download. For responsive and interactive user experiences, HTML, CSS, and JavaScript are used in the front-end development process. The back-end service layer is powered by PHP, which manages business logic and establishes connections with databases. XAMPP and Apache are used by the server layer to host and execute the application. By using data analytics, operational

efficiency is increased through performance reporting and tracking. This tiered architecture guarantees data integrity and scalability.

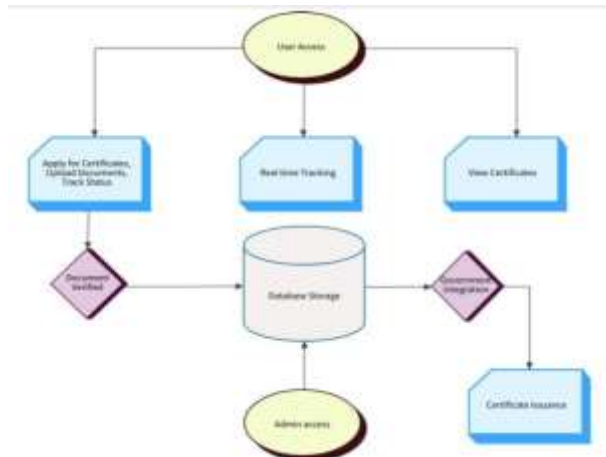
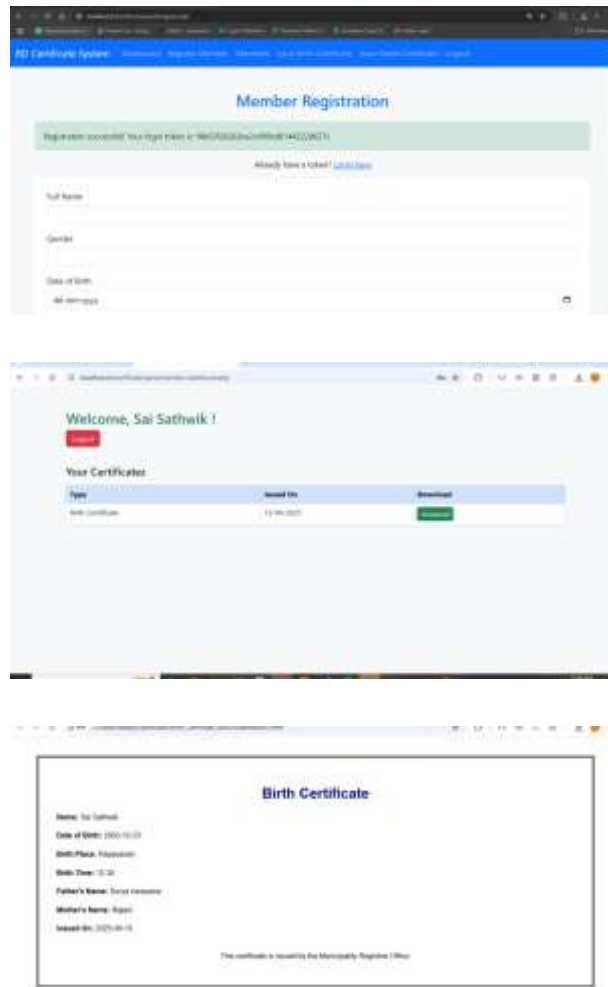


Fig:2 System Architecture Diagram

IX. RESULT ANALYSIS

This digital birth certificate issuance system effectively overcomes the drawbacks and inefficiencies of the manual procedure. Processing time, error rate, user satisfaction, and data management effectiveness were among the crucial parameters that were used to evaluate the system. Reduction of Processing Time: The digital system gave certificates much faster than the manual method. Applications that used to take days or weeks to process now only take a few hours. By enabling users to track the status of their applications in real-time, frequent office visits were reduced. Enhancement of Accuracy: Automating data entry and verification procedures decreased human errors like misspellings, data loss, and duplication. The use of unique identifiers (UIDs) for certificates made tracking and verification simple and trustworthy. User Satisfaction: Owing to the simplicity of online registration, application tracking, and instant certificate downloads, user feedback revealed high satisfaction rates. Using HTML, CSS, JavaScript, and Bootstrap to create an intuitive interface improved the user experience overall. Administrative Efficiency: A significant reduction in the administrative workload was made. Officials could easily manage records, create reports for improved decision-making, and validate and approve applications via a centralized dashboard. Data consistency and speedier retrieval were guaranteed by the system's centralized MySQL database. Security and Verification: Security was strengthened.





X. CONCLUSION

Building an image caption generator website demonstrates the effective integration of deep learning and web technologies to solve a real-world problem. By leveraging CNNs for image feature extraction and RNNs or LSTMs for natural language generation, the system can produce meaningful and context-aware captions for a wide variety of images. This not only enhances user engagement and content accessibility but also saves time and effort in generating captions manually. The project serves as a practical example of applying AI in user-centric applications and can be further expanded with advanced features like multilingual support, caption customization, and real-time API integration.

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