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Secure Verification of Citizenship Through Automation of Vital System

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Abstract: *The Proposed System is to design an automatic birth and voters ID online and issuing of computerized certificates. This process is done by getting an individual ID from the VAO and the user can login by using password. Municipal reforms cell Directorate of municipal administration develop birth and voters ID data entry application and maintain the records.The process will be completed after proper verification. Once the data entry was completed by a individual the certificate is generated automatically. Any changes can be done even after the entry such as address modification,etc,. Once it is implemented application security will also increase and citizens can get their certificates easily anywhere in the world. To bring about better governance through the use of technology and government process reengineering. It focuses on the automatic generation of birth and voters ID on creating database of records.*

I. INTRODUCTION

The main idea of this project is to issue birth certificates and voters ID online. Once the birth occurs the hospital authorities issue a registration form, whose details are entered into the data base by the users(parents).The VAO or the Thasildar verifies the details entered with that of the hospital details and generates the birth certificates. Once birth certificate is generated ,the user can download it from the database. For voters ID, citizens above 18 years can login with the registration ID and enter details like Name,Age,DOB,address,e-mail ID, mobile number and their photograph to be displayed in the voters ID. The corresponding authorities verify the details and then generate the voters ID online

II. RELATED WORKS

An easy way to comply with IJRASET paper formatting requirements is to use this document as a template and simply type your text into it. The information regarding your birth is displayed in the website where you can check for correction and proceed to print. The place of birth, Hospital name, average weight and parent's details have to be entered .It mainly focuses on collecting quality data on the certificate of Live birth. The births , which takes place in hospitals are recorded and reported to the municipalities. For non-hospital events, the anxious person can make necessary applications to the municipalities. Delay in registration of the events requires clearances from various authorities. Our website delivers the concerned persons the quality Hardcopy to the appropriate peoples.For voters ID, citizens above 18 years can login with the registration ID and enter details like name,age,DOB,address,e-mail ID, mobile number and their photograph to be displayed in the voters ID.The corresponding authorities verify the details and then generate the voters ID online[9]Competitive Advantage of Online certification compared to manual system

Access 24*7 across India

Reduces man power and damage of certificates

No need of waiting for days and months

No need of special hardware or device

Secured one, a possibility of malfunction is very rare

Portable

Easy to handle in which you are familiar with.

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events, the anxious person can make necessary applications to the municipalities. Delay in registration of the events requires clearances from various authorities. Our website delivers the concerned persons the quality Hardcopy to the appropriate peoples. For voters ID, citizens above 18 years can login with the registration ID and enter details like name,age, DOB, address, e-mail ID, mobile number and their photograph to be displayed in the voters ID. The corresponding authorities verify the details and then generate the voters ID online [9] Competitive Advantage of Online certification compared to manual system

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IV.   PROBLEMS WITH CURRENT GENERATION OF BIRTH CERTIFICATE AND VOTER'S ID

The problem with the current system is that editing of information cannot be done and the user cannot generate the certificates anywhere and anytime. It will take more time and a tedious process in accessing the concerned municipalities.[10] The certificate can be got once and it should be preserved for years without any damage. There can be a possibility of malfunctions in providing duplicate certificates. In voter's id there is a possibility in providing duplicate id for malfunction. The name and photo of the candidate can be changed. It involves man power. There will be lot of spelling mistakes in the voter's id that will leads to the trouble of the candidate.

A.   The records available will not be in proper condition such that it will be erased or damaged

B.   The certificates cannot be generated in the existing system

C.   The information regarding the candidate is not secured

V.   SALIENT FEATURES OF THE APPLICATION

A.   *Systematized Approach Of Working*

The working of the generation of birth certificate and voter's id will be highly systematized. The data will be stored properly in database server, which will help in faster retrieval as well as bin of information.

B.   *Accuracy*

The level of accuracy in the proposed system will be high as there is a provision of the automated id for each user. All operations would be done perfectly and this fortify that whatever information is coming from the server is accurate.

C.   *Reliability*

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D.   *No Redundancy*

 In the proposed system utmost care would be taken that no information is reiterate anywhere, in storage or otherwise. This would ensure economic use of storage space and consistency in the data stored.

E.   *Individual Secrecy*

In the proposed system no one would know the details of another person. The candidate can have their own authentication Id and password. All the data exchange from android device to web server will be in encrypted form resulting in the greater security [13]

F.   *User Friendly Interface*

Interface of the application will be easy to use and will save a naive user from complexity of the traditional applying of certificates so that they can get interacted with the system with an ease

G.   *ID Generation*

This application will generate a individual id for each citizen so it will be helpful for them to generate the birth certificate and voter's id anywhere when needed by providing their user id and password.
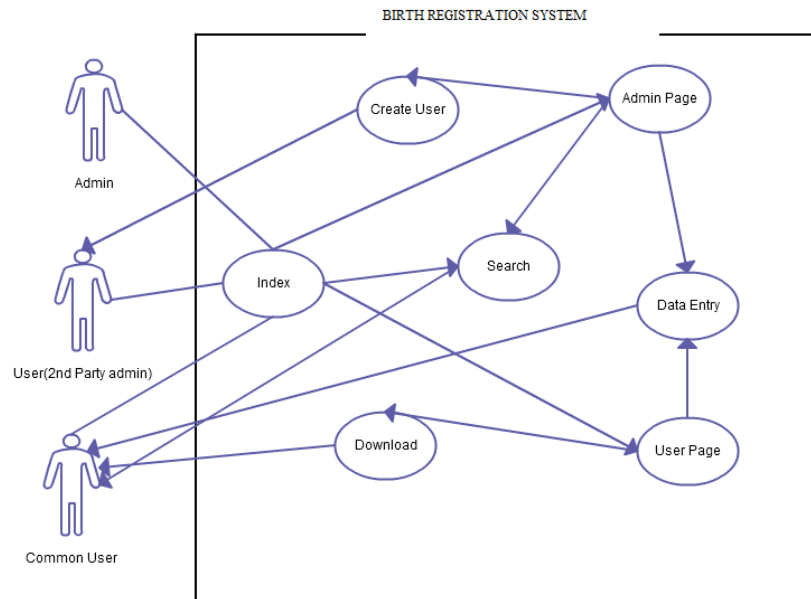
VI.   SYSTEM ARCHITECTURE

Figure 5

There would consist of three main panels which include the Admin panel. This panel will be specifically used by members of Municipal commission to administer all the database processes including registrations of candidates and voters and monitor all the other actions carried out by them. The candidate panel will be specifically used by candidates to interact with the website which will help them to work efficiently not only while entering the data but also in future.

VII.   OBJECTIVE

Online generation of birth, death certificates and voters ID. Seperate counters are opened for the issuance of certificates. Option for the citizens to view the birth certificate and voters ID records at any time .Easy generation birth and voters ID. Automated computerized Id will be issued for each registration. Citizens can view the records online.

VIII.   METHODOLOGY

The main objective of this project is to issue birth certificates and voters ID online. Once the birth occurs the hospital authorities issue a registration form, whose details are entered into the data base by the users(parents).The VAO or the Thasildar verifies the details entered with that of the hospital details and generates the birth certificates. Once birth certificate is generated ,the user can download it from the database. For death certificates the family members register the death with the help of VAO or thasildar in the database. Once the death certificates is generated the concerned person can download it .For voters ID, citizens above 18 years can login with the registration ID and enter details like name, age, DOB, address, e-mail ID, mobile number and their photograph to be displayed in the voters ID. The corresponding authorities verify the details and then generate the voters ID online [1].

IX.   WORK PLAN MODULE DESCRIPTION

A. Admin Panel

The main objective of this project is to issue birth, death certificates and voters ID online. Once the birth occurs the hospital authorities issue a registration form, whose details are entered into the data base by the users(parents).The VAO or the Tahsildar

verifies the details entered with that of the hospital details and generates the birth certificates. Once birth certificate is generated ,the user can download it from the database. For death certificates the family members register the death with the help of VAO or thasildar in the database. Once the death certificates is generated the concerned person can download it .For voters ID, citizens above 18 years can login with the registration ID and enter details like name,age,DOB,address,e-mail ID, mobile number and their photograph to be displayed in the voters ID. The corresponding authorities verify the details and then generate the voters ID online

1) Registration of Citizens: the members of Municipal commission can register the ID before the parents proceed to enter database in online by verifying their Identification as well as their social involvement. As soon as the candidate has got mail they start to login and at the first login they change password.

2) Further changes: the parents enter details of their individual which gets stored at the Database and further changes can be made in future which will be allowed only when the reason is valid and for voters id they can get their photo displayed before getting it printed.

3) Verification: In some cases it might take few days for the verification to end in changing the spelling of fathers name or so.

4) Aadhar proof : Also they aim to integrate Aadhar number in future which might eventually help in various purposes.The citizens themselves can enter their Aadhar number which will be checked with the database[6]

5) View details: The administrator (members of Municipality) can view details. The Municipality has all the rights reserved with it to register, cancel or view the details at any time.

6) Generate Result: As soon as the citizens enter details after 18years age and upload his/her photo the voter id is generated automatically. They can also view before printing.The Admin Panel is connected with the database server by any Internet connection so that the data can be stored and retrieved through that server. When the update of a person is done the server generates the voter id automatically and a soft copy is sent to their mail.
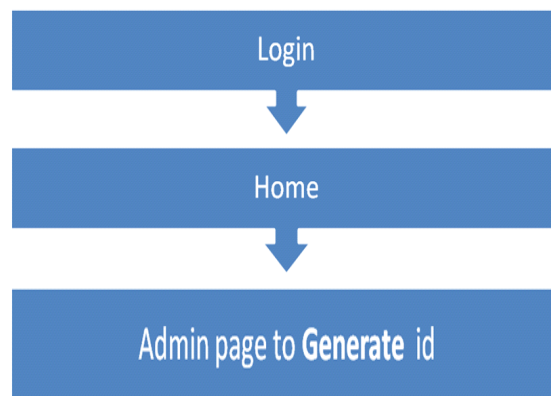
Figure 9

X.   SURVEY OF EXISTING SYSTEMS

There were several problems that have occurred in the existing system.Some of them are,

A. The records available will not be in the proper condition such as it will be unreadable, erased,etc[11]
B. Review meeting on monthly basis helps to know progress of the project implementation.
C. There are many reasons why births go unrecorded counting social and cultural beliefs and attitudes , alternative documents and naming ceremonies , poor infrastructure and economic barriers
D. Before the government registration system was created , evidence of birth and voters id was dependent on the events being recorded in the records of church . Copies of such records are not issued by the general register office but can be obtained from these churches or from the local archive which usually now keeps the records in original or copy

form[12]

XI.   TECHNOLOGIES USED

A.   SQL SERVER

SQL is a standard language for accessing and manipulating databases. It stands for Structured Query Language and it lets you access and manipulate databases.SQL is an ANSI (American National Standards Institute) standard.[15]

1)   SQL can
a)   Execute queries against a database
b)   Retrieve data from a database
c)   Insert records in a database
d)   Update records in a database
e)   Delete records from a database
f)   Create new tables from a database

2)   Set permissions on tables, procedures, and views
Although SQL is an ANSI standard, there are different versions of the SQL language. However, to be compliant with the ANSI standard, they all aid at least the important commands such as (SELECT, UPDATE, DELETE, INSERT, WHERE) in a similar manner.

3)   To build a website that shows data from a database, you will need:

a)   A MS Access,SQL Server, MySQL.
b)   To use a server-side scripting language, like PHP or ASP
c)   To use SQL to get the data you wan
d)   To use HTML/CSS

B.   JavaScript Object Notation
JavaScript Object Notation is a text-based open standard designed for human-readable data interchange which is derived from the JavaScript scripting language; it is a language for representing simple data structures and associative arrays, called objects.

XII.   FUTURE SCOPE
The application discussed above is a humble effort to bring more effectiveness to the whole System of Generating birth certificates and voter's ID. Yet there is a scope for modification and up gradation in the future. The entire database of citizens from AADHAR database can be integrated in this system increasing security in identification[20].

XIII.   CONCLUSION
To conclude, this paper successfully created a new design for generation of birth certificate and voter's id In this application user can provide their id and password to generate their certificates anywhere at anytime. Upon entering the details, a special security algorithm is used wherein you are supposed to fill an application form that requires Date Of Birth (DOB), Place of Birth, member who registered (specify if other than father) and most importantly the district and if any of the detail goes wrong accidentally the concerned person is supposed to answer another set of questions

REFERENCES

[1]   Jump up to:ᵃ Vital Records Registration Handbook (Jacksonville, FL: Florida Office of Vital Statistics, 2007) 7.

[2]   Jump up^ "About Us" (UK General Registry Office), accessed August 2009,[dead link].

[3]   Jump up^ Convention on the Rights of the Child (Office of the United Nations High Commissioner for Human Rights, 1989), accessed 17 May 2011.

[4]   Jump up^ Universal Birth Registration — A Universal Responsibility (Woking: Plan International, 2005).

[5]   Jump up^ "UNICEF SOWC Report" (Childinfo.org) accessed 17 February 2011.

[6]   Jump up^ Paula Gerba, "Making Indigenous Australians 'disappear': Problems arising from our birth registration systems," Alternative Law Journal 34, no. 3

(2009): |157–162,[dead link]. ^ Jump up to:a b Count Every Child (Plan, 2009).

[7] Jump up^ The 'Rights' Start to Life, (New York: UNICEF).

[8] Jump up^ "Fact sheets," (International Council of Nurses, 21 May 2010)

[9] Jump up^ UNICEF (2007) Birth Registration and Armed Conflict, (Florence: Innocenti Research Centre, 2007).

[10] Jump up^ Inter-Agency Task Team (IATT) on Children and HIV and AIDS Working Group on Civil Registration, Birth and Death Registration in the Context of HIV and AIDS in Eastern and Southern Africa: Human's First and Last Right (Plan, 2008).

[11] Jump up^ "Birth Registration: A Topic Proposed for an Executive Committee Conclusion on International Protection," (United Nations High Commissioner for Refugees, 9 February 2010)

[12] Jump up^ Simon Heap and Claire Cody, "The Universal Birth Registration Campaign," Forced Migration Review, no. 32 (2009)

[13] Jump up^ Futures Denied: Statelessness Among Infants, Children and Youth (Refugees International, 2008).

[14]   Jumpup^ http://www.ontario.ca/en/information_bundle/birthcertificates/119275.html

[15] Jump up^ Melanie Lee (14 January 2011). "GRO information on birth certificates in England and Wales" (pdf). whatdotheyno.com. General Registre Office. Retrieved 7 September 2015.

[16] Jump up^ "Civil Registration in England and Wales". genuki.org.uk. Retrieved 7 September2015.

[17] Jump up^ "Registration of Births and Deaths Act 1874". legislation.gov.uk. Retrieved7 September 2015.

[18] Jump up^ "Offical information on births, marriages and deaths". General Register Office. Retrieved 7 September 2015. ^ Jump up to:a b "Register a Birth". gov.uk. Government UK. 14 July 2015. Retrieved 8 September2015

[19] Jump up^ GRO (2015). "Information on a birth, certificate". gro.gov.uk. Government UK. Retrieved 8 September 2015.

[20]   Jump up^ Treasury Solicitor's Department (10 March 2014). "Proof of Identity checklist for indivduals". gov.uk. Government UK. Retrieved 8 September 2015.

[21] Jump up^ Births and Deaths Registration Act, 1953, 1 & 2 Eliz. 2, c. 1, accessed October 2011.

[22] Jump up^ GRO (2015). "Ordering a certificate for events which have taken place during the last 50 years". gro.gov.uk. Government UK. Retrieved 8 September 2015.

[23] Jump up^ Birth Certificate Fraud (Office of Inspector General, U. S. Department of Health and Human Services, 1988), iii.

[24] Jump up^ |Margaret Lee, U.S. Citizenship of Persons Born in the United States to Alien Parents, Congressional Research Service Report for Congress, (UNT Digital Library, 12 May 2006).

[25] Jump up^ Report of the panel to evaluate the standard U.S. certificates (Division of Vital Statistics National—Center for Health Statistics, April 2000, addenda November 2001)

[26] Jump up^ Report of the panel to evaluate the standard U.S. certificates (Division of Vital Statistics National)

[27] Jump up^ 2003 Revisions of the U.S. Standard Certificates (Centers for Disease Control and Prevention, last updated 27 April 2011).

[28] Jump up^ Birth Certificate Fraud (Office of Inspector General, U. S. Department of Health and Human Services, 1988),

[29] Jump up^ "First Time Applicants", US State Department, accessed 26 July 2011.

[30] Jump up^ "They Say They Were Born in the U.S.A. The State Department Says Prove It", Wall Street Journal, accessed 11 January 2012.

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