



# INTERNATIONAL JOURNAL OF PURE AND APPLIED RESEARCH IN ENGINEERING AND TECHNOLOGY

A PATH FOR HORIZING YOUR INNOVATIVE WORK

## SMART E-GOVERNANCE FOR GRAMPANCHAYAT

POOJA BHAGAT, P. B. NIRANJANE

1. Student of M.E (C.S.E), B.N.C.O.E, Pusad.
2. Assistant Professor of I.T department, B.N.C.O.E, Pusad.

### Accepted Date:

27/02/2013

### Publish Date:

01/04/2013

### Keywords

E-governance,  
Sarpanch,  
Digital Signature,  
Client,  
Server.

### Corresponding Author

Ms. Pooja Bhagat

### Abstract

Information technology has a vital role to play in all transactions that government undertaken. It helps the government cut red tapism, avoid corruption, and reach citizens directly. Such initiatives will help citizens learn about the various policies, process and help the lives that the government offers. This application will help to maintain all daily transactions which take place in Grampanchayat. This paper provides the application for reducing paper work at Grampanchayat and e-services will give the simple servicing. It also encloses the fact of reducing the labor of paper work. Here digital signature will play an important role in deploying such services. In day to day transactions e-Governance has become part of every citizen's governmental transactions and realizing its importance the government of India, also focus is given to deliver the services in a simple manner. The basic aim of intelligent system used in E-Governance can be used to give quick response and delivery of birth or death certificate by the municipal corporation.

## **INTRODUCTION**

E-Government is a subset of the concepts SMART Government. Security has become a key issue that needs to be addressed. Since government deals with sensitive information of national interest, securing data is of very importance. The notion of this project has been taken from the Bihar e-gram and the innovation of online delivery is done for the required person.

E-governance is the public sector's use of information & communication technologies with the aim of improving information and service delivery, encouraging citizen participation in the decision-making process and making government more accountable, transparent and effective. E-governance involves new styles of leadership, new ways of debating and deciding policy and investment, new ways of accessing education, new ways of listening to citizens and new ways of organizing and delivering information and services. "Governance" is a way of describing the links between government and its broader environment - political, social, and administrative."

## **MATERIAL AND METHODS**

This is required to protect individuals from others getting access to information while online services try to increase responding to the needs of online government services. This paper is done after surveying through Municipal structure and then providing an ideal solution as an Application. This application will help to maintain all daily deaths and births which take place in Gram panchayat.

This will provide an ease to the people interacting with Gram panchayat. Thus this system will be beneficial for accessing the document/certificate online. The application timing and delivering time will be reserved. This paper provides the application for reducing paper work at Gram panchayat and e-services will give the simple servicing. The basic aim of intelligent system is used here gives an estimate of work to be done.

## **GLANCING TO THE WORK**

The system proposed that the application structure consist of client server application. The client side consists of the details such as applicant's name, relation with the candidate whose birth/death certificate is to be issued, date on which the application is filled. These details are

reflected in database at server side. At server side for birth certificate following fields are required:

- Full Name.
- Gender.
- Birth date.
- Birth place.
- Father's name.
- Mother's name.
- Registration number (auto generated).

Thus for online purpose digital signature will be the safest way for preventing Mathematical scheme for demonstrating the authenticity of a digital message or document. Tampering and any misuse. For the candidate who is unable to register, can register through their relatives. Thus Registration form details are:

1. The Registration form will contain the details of the candidate for who is issuing the certificate and for whom.
2. It will contain details like Full-name, gender, email id, credit card number, relation with the applicant, Adhaar-Id number (primary key) and category of certificates.

- Permanent address.

If in case the birth or death registry is not done in gram panchayat it gives a form 10 (b) Which tell that the register doesn't contain proof, but can give the Unavailability certificate for birth/death too? All these certificates are given under the sign of the serpent (head of gram panchayat).

A digital signature or digital signature scheme is a

3. The email, Credit card and Adhere Id (primary key) is verified and then the further process starts.

4. After registration, candidate needs to apply for the form of application which includes following headers same as that of Fields in birth and death certificate.

**Unavailability Certificate** This certificate is given by the gram panchayat

1. Whenever they are unable to find the previous records due to certain consequences.

2. When the report of birth or death is not available with grampanchayat.

3. This unavailability certificate requires the following fields:

- Full Name.
- Gender.
- Adhaar Card Id.
- Relation with the person who have registered
- Birth/Death date.
- Birth/Death place.
- Father's name.
- Mother's name.
- Registration number.
- Permanent address

As the system extols the benefits of rural people by giving them consistent service, it should serve them 24 x 7. But also the system needs to be maintained and backup should be stored. Hence the system is inaccessible between 2:00am to 4:00 am. In addition the system should be given power backup of UPS for more than 8 hours to avoid power failure and unnecessary loss of data.

Unavailability certificate for birth/death too. All these certificates are given under the sign of the sarpanch (head of grampanchayat).

Thus for online purpose digital signature will be the safest way for preventing tampering and any misuse. A digital signature or digital signature scheme is a mathematical scheme for demonstrating the authenticity of a digital message or document.

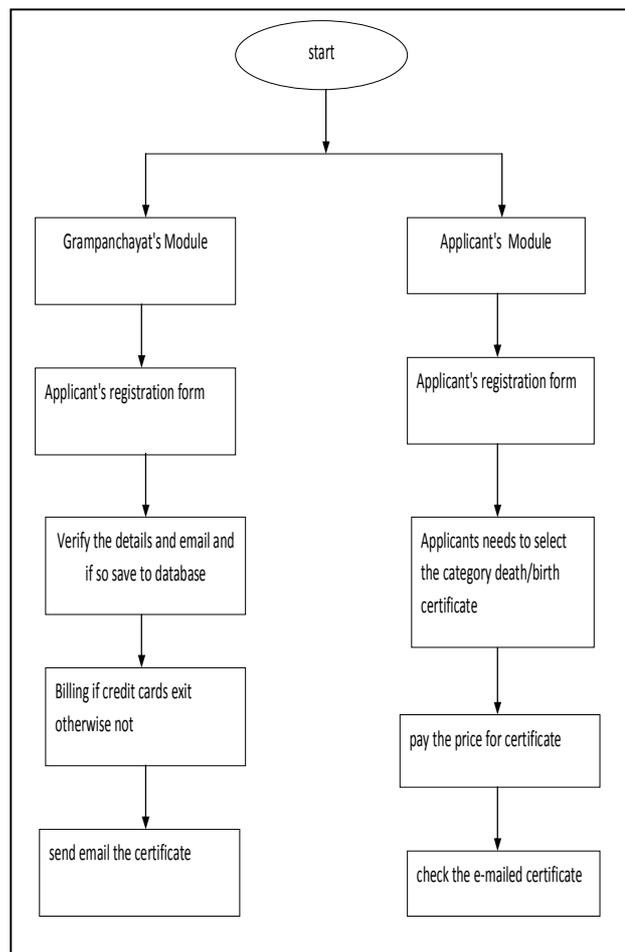


Fig 1: Grampanchayat and applicant modules work flow

## **RESULT & DISCUSSION**

This paper we have seen a very good example of a successful e-government project initiated by the village community. If all the actors, who are involved in the project have their clear-cut idea, interest and perception towards the system in the right way then success of the project is more likely to happen. The success of a project not only depends upon the technological change and high-tech system integration but the main role is played by the actors, who contribute their share of work and responsibility towards the system.

The basic aim of intelligent system used in E-Governance can be used to give quick response and delivery of birth or death certificate by the municipal corporation. As the system extols the benefits of rural people by giving them consistent service, it should serve them 24 x 7. But the system also needs to be maintained and

## **ACKNOWLEDGMENTS**

Our thanks to the Gram panchayat members and serpent who have contributed towards the development of the work by utilizing their valuable time.

backup should be stored. And the amazing thing is if the system is given power backup of UPS for more than 8 hours to avoid power failure and unnecessary loss of data can be prevented.

## **CONCLUSION**

In this project the manual system is replaced by the computerized environment so the manual error is minimized. The choice has been provided to switch from one environment to another. This makes the process fast and takes less process time. Modification process is provided as to correct the records. This software is easy to handle.

Data storage & security is the main aim of this application. This project will be especially beneficial for students and people who need to struggle for certificate and documentations in their life. They have to visit the Administrative structure more than once. So this method will be really blessed for delivering simple.

## REFERENCES

1. White paper E-Governance at Village Level Administration (In Rural India) Santosh Shingare, Pratik Shinde, Depankar Sarkar, Priya Uttarwar, Rashmi Dusane
2. Unique Identification Number And E-Governance Security by Subash Chander and Ashwani Kush
3. S. Cecchini and M. Raina, Warana: The Case of an Indian Rural Community Adopting Information and Communications Technology in Information Technology in Developing Countries, Volume 12, No. 1, April 2002.
4. TOWARDS AN IDEAL E-GOVERNANCE SCENARIO IN INDIA. WHITE PAPER BY TCS SUSTAINABLE ACCESS IN RURAL INDIA, [HTTP://WWW.TENET.RES.IN/RURAL/SARI.HTML](http://www.tenet.res.in/rural/sari.html)
5. [www.akshaya.net/proj.htm](http://www.akshaya.net/proj.htm) ICT and e-Governance for Rural Development by Prof. T.P. Rama Rao E-Governance Action Plan for India by Sameer Sachdeva.
6. E-Governance Applications for citizens - Issues and Framework S. Prem Kumar & Dr. C. Umashankar E-Gram Project – A Public Service Telecentre Initiative of the Government of Gujarat. <http://www.egov4dev.org/sfdefn.htm>
7. Building an Alternative E-Governance Model: Lessons from e-Gram in Gujarat Roshni Kishore Nuggehalli The roadmap for e-government in the developing world' The Pacific Council on International Policy, April 2002. The Working Group on E-Government in the Developing World <http://www.pacificcouncil.org/pdfs/e-gov.paper.f.pdf>
8. Zhang, Junhua. (2002). A critical review of the development of Chinese e-government. Perspectives (3), 8. Available: [http://www.oycf.org/Perspectives/19\\_123102/eGovernment.html](http://www.oycf.org/Perspectives/19_123102/eGovernment.html)