An Emerging Smart Solution for Panchayat Problems in All Villages

Dr. G.Glorindal Selvam[1] S.Pushpa[2] P.Selvi[3] R.Suganya[4] D.UshaSameshwari[5]
[1]Associate Professor [2,3,4,5]UG Students
[1,2,3,4,5]Department of Computer Science and Engineering
[1,2,3,4,5]Jayaraj Annapackiam CSI College of Engineering, Nazareth, Tamil Nadu, India

Abstract— In all villages the gramapanchayat plays a vital role in day to day activities for every individual citizen such as water supply, street light maintenance, maintaining the drainage and cleaning activities etc. Also they use to pay their water bill, Home Tax etc by directly approaching the office. To resolve those problems we are developing an online based smart solution that can prevent further damage to the environment and reducing effort of the common man. In this application we provide an option for the villages to compliant directly to the village panchayat when the person is been neglected with reasons. In case if the village panchayat does not take necessary action in a given period of time the compliant will be forwarded to the Town panchayat. We also provide high security over the system along with hashing technique. The users are restricted from spam complaints. Provided this solution we can rectify most of the problems that is been faced by a common villagers. We also have added the feature called online water bill payments, tax payments. The Villagers can also apply for death and birth certificates in case of emergency situation. Providing this solution the villagers of grama panchayat will get benefited in multiple ways.

Key words: UIDAI (Unique Identification Authority of india),RSA(Rivest Shamir Adleman)

I. INTRODUCTION

The vast majority of India's population lives in the villages and the Panchayats (village level governance units also known as Panchayat Raj Institutions(PRIs)) represent the face of the governance for these villagers.To improve the quality of governance of these PRIs including 0.235 million Gram Panchayats, 6094 Block Panchayats and 633 ZillaPanchayats, the Ministry of Panchayati Raj (MoPR), Government of India (GOI) has initiated the e-governance scheme known as e-Panchayats.In all villages the gramapanchayat plays a vital role in day to day activities for every individual citizen such as water supply, street light maintenance , maintaining the drainage and cleaning activities etc. Also they use to pay their water bill, Home Tax etc by directly approaching the office. To resolve these problems online based smart solution is developed to prevent further damage to the environment and reducing effort of the common man. In this application we provide an option for the villages to compliant directly to the village panchayat when the person is been neglected with reasons. In case if the village panchayat does not take necessary action in a given period of time the compliant will be forwarded to the Town panchayat. It provides high security over the system along with hashing technique. The users are restricted from spam complaints. Provided this solution we can rectify most of the problems that is been faced by a common villagers. It also has added the feature called online water bill payments, tax payments. The Villagers can also apply for death and birth certificates in case of emergency situation. Providing this solution the villagers of grama panchayat will get benefited in multiple ways.

II. GUIDELINES OF SMART PANCHAYAT

Smart Panchayat is the successful implementation of beter service delivery model of any government initiative.The objective are also be included in this guidelines. The primary institutions are the self governance. Prioritize, development, plan, budget and implement their own developmental priorities and needs are used. Strengthen the mandate dialogic and negotiating abilities and ownership of the grama panchayt.

III. EXISTING SYSTEM

previously the system is depend upon manual complaints by manual registration .Manual registration for the new water service and new light source and also the new current line.These are the system maintained in the grama panchayat.

IV. PROPOSED SYSTEM

At present every citizen belongs to any Gram panchayat has to walk-in directly to the panchayat office in case if he/she face problems in their street like water problems, sanitation problems, road problems, etc., We have developed an application to register complaints from their home itself. Using this application the user can also pay water tax, Electrical bill, Land tax etc. The rigistered user can apply for new water services and panchayat resources.

V. IMPLEMENTATIONS

In this project An emerging smart solution for panchayat problems in villages is implemented by the following modules. They are

1) User Registration (using UIDAI)
2) Complaints Registration
3) Bill Payments
4) Apply
5) New Schemes
6) Birth and Death Certificates
7) Notification

1) User Registration:

Aadhar is a 12-digit unique identification number issued by the Indian government to every individual resident of India.Unique Identification Document or number that would capture all the details, including demographic and biometric information, of every resident Indian individual.Once registered the panchayat office will get the user details from UIDAI (Unique Identification Authority Of India), i.e the user name, address, mail id, fingerprint, iris etc. The panchayat office will receive complaints.
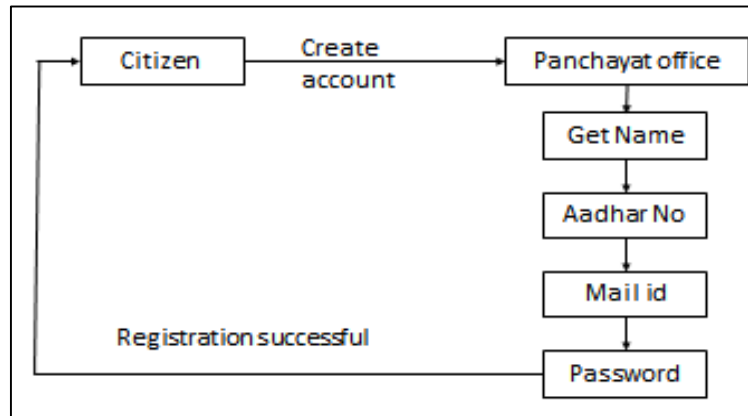

Fig. 1: Block Diagram of User Registration

2) Complaints Registration:

The water problem, sawege problem, road problem and current problem will be registered in this module. The block diagram is shown in below.
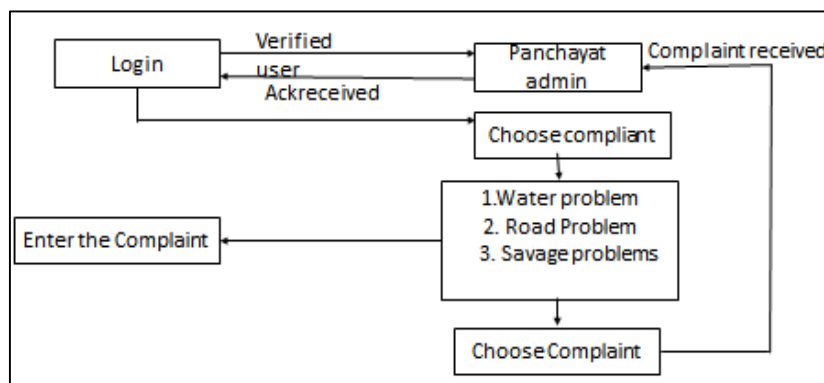

Fig. 2: Block Diagram of Complaints module

3) Bill Payments:

In this module the tax payments such as water tax, house tax and the EB bill are also be payed .The net banking will be used in this module.

4) Apply:

The Apply module is used to apply the new water supply and new current line.The new services are provided by the gram panchayat.

5) New Schemes:

When the government is announced the new schemes are upload in this module then we apply the new schemes are available.

6) Birth and Death Certificates:

We also apply the birth and death certificates are to be include in this project.
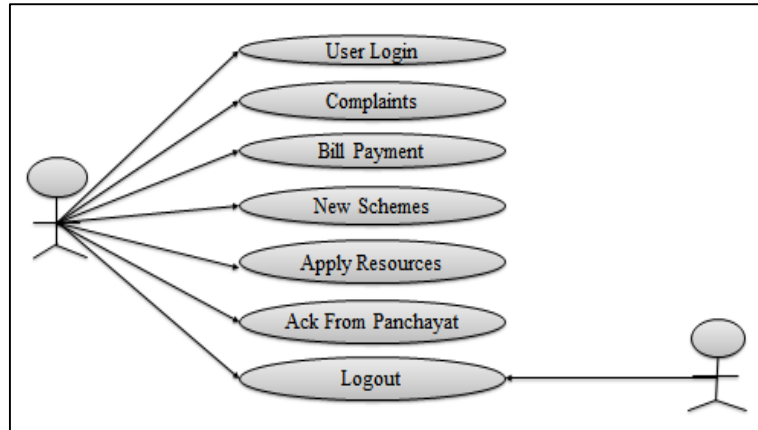
VI. USE CASE DIAGRAM

Fig. 3: Use case diagram of Grama Panchayat

VII. ALGORITHM

RSA (Rivest Shamir Adleman)—an asymmetric encryption algorithm, based on using public and private keys.A message is encrypted using a public key and can be decrypted only with a private key. The public key may be available to all system users, and private should be kept confidential in an encrypted form.
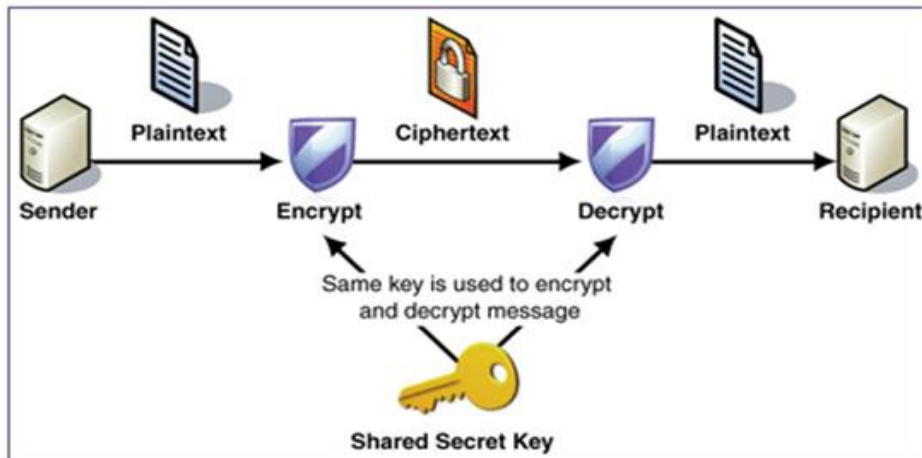

Fig. 4: RSA Algorithm

VIII. SOFTWARE & HARDWARE REQUIREMENTS

A. *Software:*
‒ Platform : Android
‒ Language : Java, xml
‒ Backend : SQLite

B. *HARDWARE:*
‒ Os : Windows Xp
‒ Ram : 2GB
‒ Hdd : 500GB
‒ Processor : Pentium IV

IX. ADVANTAGES

The advantages of the Smart panchayat is the following
‒ Avoid waiting in queue
‒ Digital money
‒ Time Saver

X. DISADVANTAGES

The disadvantages of the smart panchayat is the following

1) Require Smartphone.
2) Constant internet Connection.
3) Net banking.

XI. CONCLUSION

Although In this An emerging smart solution for panchayat problems in villages, 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 service time faster and reduce the mental stress and strain. Modification process is provided as to correct the records.

XII. FUTURE ENHANCEMENT

− In future it is enhanced to work with are land registration, verification and other related works too.
− Using this application the user can get corrections their adhar card and ration card with proper security

REFERENCES

[1] Sagar N, H L Shilpa,'E-Services of Gram Panchayat System' 2017.
[2] Ms. SonaliJindal ,Dr.VinayOjha,' E-panchayat A Revolution'2017.
[3] Amit N. Sangole , S.A.Bhura ,' Sustainable Development of Gram panchayat through E- Governance'2016.
[4] E-Services of Gram Panchayath System Sagar N, H L Shilpa MCA Department, P.E.S. College of Engineering, Mandya, Karnataka, India
[5] Sustainable Development of Gram panchayat through E-Governance Amit N. Sangole , S.A.Bhura , Computer Science and Engineering BNCOE Pusad, SGBAU University. Smart e-governance for grampanchayatpooja s bhagat, pornimab. niranjane
[6] Hurdles in rural e-government projects in India: lessons for developing countries Narasimhaiah Gorla* School of Business and Management ,American University of Sharjah, PO Box 26666, Sharjah, UAE E-mail: ngorla@aus.edu E-mail: n_gorla@yahoo.com