

E-Gram Panchayat System

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Abstract: *This project's goal is to develop a E Gram Panchayat website. This is an online application which can be access through internet from anywhere and at any time. The main objective of this website is to provide information of newly implemented schemes to villagers so that they can apply for those schemes. They also can apply for any document or certificate like 8A, birth and death certificate, assessment certificate and BPL certificate. The website will also focus on farmer support, this will help to provide support to farmers to provide market for their crops.*

Keywords: E-Gram Panchayat, Farmer, E-Governance, Government-citizen relationships, E-Government, Android Application, User Friendly, Secured, Centralized Approach

I. INTRODUCTION

In village the panchayat is the local government who manages the works in the rural area. The sarpanch is main authority and gram sevak handles all the paper work of gram panchayat. The Panchayat have been in existence for a long period of time but the present system clearly marks off from the past in respect of powers, functions and financial resources.

II. LITERATURE SURVEY

[1] Satish R. Shelar, Sagar Hanumant Totare, Priyanka Vasant Ipkal, Poonam Balusing Pardeshi "E-Gram Panchayat" Department of Computer Engineering, Adsuls Technical Campus, Ahmednagar, India

In this paper, the online platform for Gram Panchayat has been developed. The admin can use this project to maintain villager's data. With this project, the villagers are able to request for documents to Gram Panchayat. The villagers can see the schemes. Any user is able to access the data but only admin can upload the data.

[2] ¹Prof. M. S. Sawane, ²Prashik S. Awachar, ³Saurabh S. Shah, ⁴Sushant C. Waghole "E-Gram Panchayat using ICT", ¹Assistant Professor, ^{2,3,4}UG Scholars Department of Information Technology Bhivarabai Sawant Institute of Technology and Research Wagholi, Pune, India-412207

In this paper, the villagers can apply for documents like income certificate, 7/12 certificate etc. The villagers will get the documents on their mobile application. They need not to visit the Gram Panchayat for documents. With the admin login the admin entity in the Gram Panchayat, like Gram sevak can save and retrieve the data of village.

[3] ¹Dr. H.R. Kaushal, ²Dr. Bhagwateshwari Karki, "OPPORTUNITIES, CHALLENGES, INITIATIVES AND AVENUES FOR DIGITALIZATION IN INDIA", ^{1,2}Department of Commerce, Kumaun University, S.S. J Campus, Almora, Uttarakhand, India

The objective of this paper is to study the impact of digitalization on the Indian economy. It studies the effectiveness and efficiency improvement due to e-governance. There are so many digital platforms have been developed to increase the digitalization in India like Bharat Net, Digi-locker.

The applications like UMANG, BHIM-UPI for digital payment, DBT applications like Maha DBT for post matric schemes and farmer schemes have been developed for digitalization for better Governance.

[4] ¹Ch.Leela Poornima, ²ChPavani, ³G.Parameswari, ⁴K.Subhash Reddy, ⁵Dr.A.Veerawamy, "Automation of Gram Panchayat" ^{1, 2, 3,4}Pursuing B.Tech (CSE) from St. Ann's College of Engineering. & Technology. Chirala, Andhra Pradesh -, 523 187 INDIA, ⁵Associate Professor, Department of CSE.

The main goal of this project is to automate the Gram Panchayat tasks. To provide villagers the online platform to get different certificates from home. The benefits of this projects are; it provides better services to villagers, it provides better transparency, monitoring of services and revenues. With the help of online application, the farmer can do their

task from anywhere and they can avoid to visit Gram Panchayat and so they can use their time in work only. They can continue their work of farming and can avoid wastage of time.

[5] ¹Amit N. Sangole, ²S.A.Bhura, “Sustainable Development of Grampanchayat through E-Governance”, ^{1,2}Computer Science and Engineering BNCOE Pusad, SGBAU University

There are three logins in this project, one is for Admin, second is for Gramsevak and third one is for Villagers. With Admin login the administrator will add new schemes which will be displayed in Gramsevak and Villagers login. The Gramsevak will be responsible for data entry and managing the data of villagers and panchayat. The villagers can use their login to apply for scheme. The users will get their documents in their account which will be created at the time of registration. They can get the documents or certificates by using key which is provided through email. With this project, the tasks will be done properly and efficiently and also the transparency will be maintained.

[6] ¹Manikanta Sahu, ²Heena Pradhan, ³Tara Netam^{1,2,3}computer Science & Engineering, New Government Engineering College Sejbahar Raipur (C.G) Chhattisgarh Swami Vivekanand Technical University Bhilai. India.

The Digital GramPanchayat services is helping villagers to get the information about services provided by government easily. The services are provided by government for the welfare of villagers. In this website the work of gram panchayat will be done in a digital form. With the help of this website, all the information related to Gram Panchayat will be get online. This Service is a system which will help government staff by reducing their paper work. This will also help villagers who seek the services of government. There will three logins as Admin, Staff and User/villagers. The staff will be the mediator between users/villagers and gram panchayat. The villagers can register and apply for services provided by government. The main objective of this paper is to provide transparency. The villagers can fill the forms by own so that they can see all the details and status of their application. Through admin login, all the data can be seen regarding gram panchayat and services applied by villagers. The staff will see the applied services and will verify the data and uploaded documents.

[7] ¹Sowkat Ahmad Dar Department of Political Science & Public Administration Annamalai University, Tamil Nadu India ²Dr. Naseer Ahmad Lone Assistant Professor Chandigarh University.

This paper has presented the importance of digitization of gram panchayat. In this paper the various uses of online platforms in improving panchayat efficiency, citizen service delivery, transparency enhancement and boosting of revenue. The main goal of this paper is to make daily panchayat tasks easier and more efficient by using two-way exchange of material and information. The e-Panchayats will accelerate the growth and it will improve information availability. The efficiency, transparency and effectiveness will be promoted of citizen services by this e-Panchayat systems through smartphones, laptops and so on. The government of Jammu and Kashmir made the E-governance and other IT initiatives mandated in the 2004 IT policy. The government of J&K made the e-Panchayat (MMP) Mission Mode Project with aim that all Panchayats can use the internet / online platform to work more efficiently.

[8] ¹Vignesh R, ²Swamydoss D, ¹Student, Department of Master of Computer Applications, Adhiyamaan College of Engineering (ACE), Hosur, Tamil Nadu, India. ²Head of Department, Department of Master of Computer Applications, Adhiyamaan College of Engineering (ACE), Hosur, Tamil Nadu, India.

In this project, the application’s main objective is to deliver citizen services in the rural areas through the online applications. The Gram Panchayat is a decentralized institution which manages the application and provide information of services in the gram panchayat. The Panchayat service application is a android mobile application which can be developed using Android Studio. This application is designed to provide various services of the Gram Panchayat to the villagers such as tax payments, access to government schemes and issuance of certificates. The Panchayat Service Application can improve the efficiency of the Panchayat system. This will reduce the manual intervention and hence can work efficiently and transparency will be maintained.

III. EXISTING SYSTEM

In village the people are usually unaware about the government schemes which are implemented for them by the government. There is a meeting called ‘Gram Sabha’ is held by Sarpanch and other people to give information about the schemes and other services but due to the work in farm the villagers cannot attend the meeting. Hence, they didn’t get the knowledge about the schemes. The panchayat’s data is stored manually on the papers

IV. PROPOSED SYSTEM

In proposed system, we will provide online platform for the villagers and gram panchayat members to do their work very efficiently. With this project, the villagers can get the knowledge of every scheme anytime on the website. The website will be in Marathi language so they can understand it easily. They can take help of any educated person in their family and can apply for documents like 7/12, assessment certificate and any other documents. The grampanchayat member like Gram Sevak can use this project to store the data of Panchayat online. The transparency of data will be maintained through this project. The villagers can raise the grievances through this project. The suggestions from the people regarding better performance of Panchayat are also accepted through this online portal. In this portal, we will integrate with digi-locker so that the documents uploaded on it can be fetched in this portal and users need not to upload them again here. We will provide the user interface to request farmers for their fruits and vegetables to provide market to Gram panchayat. The gram panchayat's specific member regarding this service will handle these requests and provide the market and right rates to the fruits and vegetables or other grains.

In this portal, we will add services mainly for farmers as well. In village mainly the people are farmers so our main goal should be to provide services to farmers.

The farmers can update their crops, fruits and flowers into this platform and then Gram Panchayat will help to provide them market. The buyers will be registered on the website who will get these details and can contact farmer directly. This will reduce the corruption which causes farmers crops getting low market value.

The farmer can post their complaints on this platform about their crop damage caused due to many natural disasters and Gram Panchayat can help them easily.

The portal will be in flexible in choosing language so that villagers can easily use the portal.

V. SYSTEM ARCHITECTURE

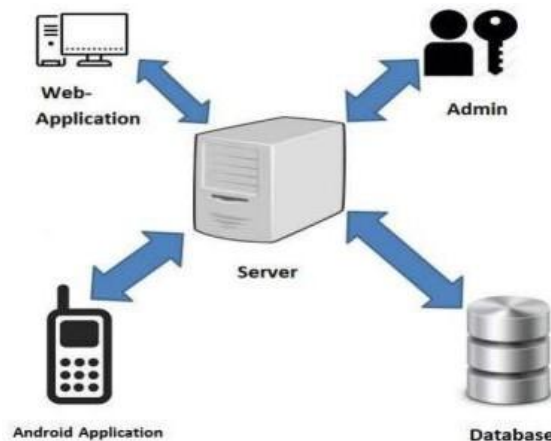


Fig.2. Architecture diagram

Server

Server to store the data globally. In this System we are using SQL Server 2018. It is three tier architecture.

Android Application

In android application as well as web application, we can register or sign up with our email, password and mobile number. Each user can apply online documents in web application and android application such as birth certificate, living certificate, income certificate etc.

Database

Database handlers create database in such a way that only one set of software program provide access of data to all the users. This System uses SQL Server 2008 R2 for storing the data. In android application, the system uses Fire base console to store the data in cloud. Firebase console is Google free service; we can use the cloud as the database.

Modules

Module 1: User will sign up or register with his/her mobile number, name, date of birth, email ID (optional) and password.

Module 2: The welcoming message will be sent on mobile number and then user can login with username and password. After login user can get all the necessary information about village.



Module 3: The admin will be gram sevak who will add or update the data of villagers. Who will be the main person to handle the data on portal. He will add / update new schemes on portal.

Module 4: User can view the current schemes running in village. They can apply for the scheme by own on this portal and can get benefit directly. The application forms will be verified by staff and will be approved or rejected as per eligibility criteria and data provided by villagers. After approval, the farmer / villagers will get benefit in their bank account directly.

He can get the details about village such as sarpanch or gram sevak contact number and other committee members number and photos of village.

Module 5: All the requests of the farmer or people regarding documents or certificates etc. will be handled by admin. Admin has an authority to check farmer's details by their Aadhaar card number.

Module 6: Admin can see farmer's pending home tax and water tax, if it is nil then only farmer can get their document.

Module 7: Each user can apply online documents such as birth certificate, living certificate, income certificate etc.

Module 8: The farmer can inform the gram panchayat through the portal regarding his vegetables or fruits to sell and then gram panchayat will help him to provide the market for them. The buyers will directly register on this portal and can see the availability of fruits, vegetables and other crops and contact directly to farmer.

Module 9: The speech recognition module will help to farmers to search anything easily on the site with voice command.

Module 10: The data of the gram panchayat will be maintained on digital platform so that paper work will be reduced. The information about villagers, new born, animals and trees etc. will be maintained in this portal. The record will be maintained of new born babies and their vaccines and other health details. The gram panchayat will

Scope

In the rural area.

When user outside the village and he require document then he can apply online.

Maintain the huge data and paper work can be avoided.

VI. CONCLUSION

E-Gram Panchayat system for panchayat provides online services to the people living in that panchayat. This will help people and farmer in that village to do their work without wasting their time to visit the panchayat personally. With this system everything is made online hence people can request their applications from anywhere at anytime. The villagers and farmers can get the most of the facilities easily and on time through this online portal.

REFERENCES

- [1]. Ch. Leela Poornima, Ch. Pavani, G. Parameswari, K. Subhash Reddy, "Automation of Gram Panchayat", International Journal of Emerging Trends in Engineering Research, 2016.
- [2]. Amit N. Sangole, S. A. Bhura, "Sustainable Development of Grampanchayat through E-Governance", International Journal of Computer Science and Information Technologies, 2016.
- [3]. S. D. Dhage, G. A. Ghone, Akash R. Bhojane, Prathamesh B. Thorat, Naim Y. Shaikh, "E-Gram Panchayat Management System", International Journal for Scientific Research Development, 2018.
- [4]. Sonali Jindal, Vinay Ojha "E-Panchayat – A Revolution," International Journal of Science Technology and Management, 2017.
- [5]. M. S. Sawane, Prashik S. Awachar, Saurabh S. Shah, Sushant C. Waghole "E-Gram Panchayat using ICT," International Journal for Scientific Development Research, 2019.
- [6]. Manikanta Sahu, Heena Pradhan, Tara Netam, computer Science Engineering, New Government Engineering College Sejbahar Raipur (C.G) Chhattisgarh Swami Vivekanand Technical University Bhilai, India.
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