

Android based village Automation

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ABSTRACT

We live in a nation where agriculture is the main source for the economy. Thus, it is needed to encourage farming. More than 70-75% of citizens are dependent on the agriculture industry. This paper focuses on the key areas of interest from the farmer's perspective and also identifies the applications of IoT in those sections. It also provides an important view with respect to enhancement in the quality of life in villages. It is essential for designing and developing Smart Villages across the country which are independent in sourcing services and employment capabilities connected to the whole world. Smart villages can be associated to villages through information and communication technologies (ICT) used to access the Internet. Smart Villages are programmed to encourage public facilities in the villages and seek to make villages "smart" on the lines of Smart Cities that will help the nation become self-reliant, clean and up to date.

Keyword: - Smart Villages, Internet of Things, Smart Cities, Big Data, Cloud Computing, Information, Communication Technology, Android.

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I. INTRODUCTION

India is a country dominated by villages. So that developing India it must develop villages first, but because of lack of communication in villages they do not have a central communication system. Hence villagers do not have sufficient knowledge about ration status, dairy management, important announcements in villages, government schemes, funds & taxes to overcome from this problem and to help villagers it is possible to make an Android application from them to know all important information through an Android application. An Android application that provides farmer worker recruitment process, notice board. This Android application provides a centralized management system. A large number of Indians are living in villages; hence it is necessary to include their point of view to make India smart. Now this is the time to change the views of rural people as they are using smart mobile with many useful applications. Modern information technology is a very easy way to change their views and understand the concept of smart villages. A smart village means where a person can be able to speak, for work to respect each other. A large number of people will require a large amount of resources in our

country is not very rich to provide digital devices to every village people. This paper is developed after understanding the life of the village people and how smartphones are used to enhance the life of people who live in villages. Smart people are a necessary part of smart villages, because they plan the social look at the village through their skills like creativity and social relations with others that help the village to be open to the outside world. It is not easy to find a large number of smart people in Indian villages so a group of some smart people can be made for each village. The group is responsible to create other smart people.

II. ARCHITECTURE OF SMART VILLAGE SYSTEM

This is specifically designed for people or areas that are living in rural parts of India. Design of the system is user friendly that it can be easily handled by any literate or illiterate person. India is a country having various religions and languages so the Smart Village system includes the following modules

- 1) Notification Management,
- 2) Milk Dairy Management,
- 3) Labor Management and
- 4) Tax Payment.
- 5) Registration & Complaint
- 6) Transportation Management
- 7) Digital Mandai

This are modules we are going to develop in smart village system .There is a main Database server we can access the system by using Smart phones or Tablets having android operating system. The main server can be handled by Administrator. User can access the modules by using Wi-Fi, 3G, or 4G LTE. Firstly user needs to register to access the Application. After completing the Registration process user can access the different modules and able to Receive the Notification.

III. SYSTEM FOR PROJECT

1. Milk Dairy Management

As we have discussed above in existing system how the Dairy management system lags due to improper record management. To resolve this unorthodox situation we have designed the all new online dairy management system. The new managerial system keeps record twice a day (Morning and Evening) which helps villagers to track day to day collection of milk and their payment. Payment is Transferred Online automatically to each Member after every ten days.



2. Notification

It is also one of the most essential modules which govern the regular notification scheme. Whenever government announces a new scheme, event, promotion it directly reaches in the notification panel. Villagers are up to date instantly. Administrator can send any notification regarding gramsabha, devotional, spiritual, entertainment, financial using this app.

3. Labor Management

Labor management is highly under estimated system in India, as it is not supported by officials, it is necessary to

encourage labors in having their hand to our general economical subject. This module is divided in two parts first for Farmers and second for Labor. The Farmer and labor work hand in hand to increase the opportunity. This app organizes the labors as per the farmers need giving labors their value for their work. Even the labors find their place of work. Farmer can easily find worker as per need using this module. Farmer need Labor for the different type of work like Spraying, feeding, Planting, cropping, harvesting.

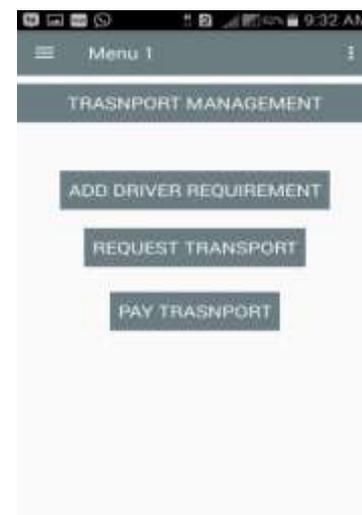


4. Tax Payment

Tax payment is made online in this module by using by debit card, credit card, ATM card, Online Banking using Payment gateway. This reduces the headache of farmers as their efforts for payment are reduced. Corruption, fraud is degraded to large.

5. Transport Management

Transport management is online transport module for vehicles available in village.



6. Digital Mandi

Digital mandi is online market for villagers. Villagers can buy any product online.



7. Crop Rates

Crop rates module is useful to farmer to check market rates for their product.



IV. CONCLUSION

After getting independence in 1947, it was believed that our nation progress a lot by adapting the advance technologies from western powers but due internal rational disagreement on the foreign materials india lacked this opportunity and didn't adapted to new technologies. as the time passed on and development in computerization created a revolution in 1990's indian people came to know about the importance of automation and now in 21st century it became a great need. current system has lots of drawbacks as it requires lots paper work, man power which is infeasible and over the more accuracy is low with high probability of corruption. understanding all this we have developed a system which can reduce all the hard work to zero and yield great result.

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