

DIGI AREA USING CLOUD COMPUTING

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ABSTRACT

Cloud computing is a new form of Internet-based computing that provides shared computer processing resources and data to private computers and other devices on demand of processing. Cloud computing allows the users and enterprises with various capabilities to store all over the world data and process their data in either privately owned cloud, or on a third-party server to make data accessing more easy and reliability as well. In India we don't have any direct communication between the government and public in an efficient way for solving the common citizen problems. To solve problem in our place we have to bribe the higher officials and get them solved in two months which can be solved actually in one month of time. In this paper, to overcome this issue, introduce online compliant process in digi area using cloud computing which will directly pass to higher officials and get solved soon. This reduce the time taken to solve the problem in efficiently. And also it uses cloud for storage of data, because this portal is container of data where data storage play vital role. By using cloud storage it using more efficiency and reliability when compare to other method.

KEYWORDS: Compliant management, third-party server, internet-based computing

INTRODUCTION

The "cloud" in cloud computing originated from the habit of drawing or imaging the internet as a fluffy cloud in network diagrams. No wonder the most popular meaning of cloud computing refers to running workloads over the internet remotely in a commercial provider's data [15-19] centre the so-called "public cloud" model. AWS (Amazon Web Services), Salesforce's CRM system, and Google Cloud Platform all exemplify this popular fields of cloud computing process. But there's another, more precise meaning of cloud computing: the virtualization and central management of data center resources as software-defined pools. This technical definition of cloud

computing describes how public cloud service providers run their set of task or operations.

The key advantage is agility: the ability to apply abstracted compute, storage, and network resources to workloads as needed and tap into an abundance of pre-built services. From a customer perspective, the public cloud [7-14] offers a way to gain new capabilities and availabilities on demand without investing in new hardware or software. Instead, customers pay their cloud provider a subscription fee or pay for only the resources they use. Simply by filling in web forms, users can set up accounts and spin up virtual machines or provision new applications. More users or computing resources can be added on the fly the latter in real time as workloads demand those resources thanks to a feature known as auto-scaling.

Private cloud is cloud infrastructure operated solely for a single organization, business sector, whether managed internally or by a third-party, and hosted either internally or externally. Undertaking a private cloud project requires significant engagement to virtualize the business environment, and requires the organization to re-evaluate decisions about existing resources. A cloud is referred as "public cloud" when the services are rendered over a network that is open for public use. Public cloud services may be free. Technically there may be little or no difference between public and private cloud architecture, however, security consideration may be substantially different for services (applications, storage, and other resources) that are made available by a service provide vendor for a public audience and when communication is effected over a non-trusted network. Hybrid cloud is a composition of two or more clouds (private, community or public) that remain distinct entities but are bound together, offering the benefits and gain of multiple deployment models. Hybrid cloud can also mean the ability to connect collocation, managed and/or dedicated services with cloud resources. Community cloud shares infrastructure between several organizations from a specific community with common concerns (security, compliance, jurisdiction, etc.), whether managed internally or by a third-party, and either hosted internally or externally. The costs are spread over fewer

users than a public cloud (but more than a private cloud), so only some of the cost savings potential of cloud computing are realized.

The capability provided to the consumer is to use the providing vendor's applications running on a cloud infrastructure. The applications are accessible from various client devices through either a thin client interface, such as a web browser (e.g., web-based email), or a program interface. The consumer does not manage or control the process of cloud infrastructure including network, servers, operating systems, storage, or even individual application capabilities, with the possible exception of limited user-specific application configuration settings.

Online Complaint Management System provides an online way of solving the problems faced by the public by saving time and eradicate corruption. The objective of the complaints management system is to make complaints easier to coordinate, monitor, track and resolve, and to provide company with an effective tool to identify and targeted area problem, monitor complaints of people handling good performance and make business improvements. Online Complaint Management is a management technique for assessing, analyzing and responding to customer complaints. Complaints management software is used to record resolve and respond to end customer complaints, requests as possible as facilitate any other feedback from them. The main purpose of this project is to help the public in knowing their place details and getting their problems solved in online without going to the officer regularly until the problem is solved. By this system the public can save his time and eradicate corruption problem in government offices. In the proposed system the citizen need not go to the government office for getting his problem solved. He can get his problem solved by posting his problem in this proposed system and he can suggest a possible solution to the problems posted on the system. He can even get the information of the funds and other details of his place in detail through this system.

A. RELATED WORK

The cloud computing is originated from the habit of drawing the internet as a fluffy cloud in network diagrams. No wonder the most popular meaning of cloud computing refers to running workloads over the internet remotely in a commercial provider's data centre so it is referred as public cloud model. Finally, we discussed about all the above papers and we get my ideas and knowledge by learning those papers. Digi

area is used for the system of the application where people can use it portably. It is user friendly in which it can be used to enter the compliant of their area. The system which has been in the web application in portal format. It leads to the time consuming and leads to good performance quality.

The concept of a smart city has been identified as important aspect for responding to the challenges of urbanization and convenience for citizens. The information communication technologies such as cloud computing, internet of things and Service-Oriented Architectures can be deployed as a vehicle for catalyzing smart city innovations. Information and sensing technology utilization and integration of the urban infrastructures and citizens in new means paves the way to important aspect such as energy efficiency, the enhanced quality of life and better systems-of-systems collaboration. Arrowhead project develops a technical framework, which enables the collaborative automation by networked embedded devices. Collaborative automation is enabled with ServiceOriented Architecture. This paper discusses the Arrowhead framework applied in the smart city domain. They present two Arrowhead compliant smart city systems and their integration for creating new and enhanced system behaviour.

That paper discusses integration of street light and car heating systems in order to create better user comfort and energy savings. The work demonstrates that the Arrowhead Framework allows to create multi-vendor system of systems applicable in the smart city domain. comprehensive literature review on applications of economic and pricing models for resource management in cloud networking. To achieve sustainable profit advantage, cost reduction, and flexibility in provisioning of cloud resources, resource management in cloud networking requires adaptive and robust designs to address many issues, e.g., resource allocation, bandwidth reservation, request allocation, and workload allocation. Economic and pricing models have received a lot of attention as they can lead to desirable performance in terms of social welfare, fairness, truthfulness, profit, user satisfaction, and resource utilization. This paper reviews applications of the economic and pricing models to develop adaptive algorithms and protocols for resource management in cloud networking. Besides, we survey a variety of incentive mechanisms using the pricing strategies in sharing resources in edge computing. In addition, we consider using pricing models in cloud-based Software Defined Wireless Networking (cloud-based SDWN). Finally, we highlight important challenges, open issues

and future research directions of applying economic and pricing models to cloud networking.

B. PROPOSED SYSTEM

To overcome issues in existing system of storing all the data in cloud we are trying to solve it using cloud storage technique. In our system, we try to overcome all the existing issues and to make all village people to aware of their surroundings and took participate all the events conducted by government. We have some government websites to know information but they are not interactive, they only show basic information and details related to that government project. In this, we create individual account for each user by this, they can access all the information related to their surrounding and make their complaint related to category we file complaint. In this we have number of modules which have different functions.

In this, we have group chat facility by which people can share their thoughts for the development of their society and it all make good relationship between different people. Next, If the user need to complaint regarding their surrounding such as “Roads, Electricity, Water management” which cause trouble, can make their complaint in the ”Complaint” option. In this they can file their complaint in related categories. This complaint will automatically move to related department or Panchayat officer and he/she should take necessary action within 24hrs. Otherwise there is automatic control to forward that complaint to higher official officer to take further action on that complaint.

In another module, it will display all the upcoming events and related information like posters will also display. It also display the closed events and their information along with pictures. Next, we have the map of their area, it will display all the places and it also show the images of important places in that area. Further, we can display all the information about that area like history, population, famous places and it also display all the officers details and ruling party elected members list.

In our system, we try to make people to interact with each other by sharing their thoughts and interact with government officials. They get interested to take part in all event. In this all the complaints will post in common page and if action is not taken on that complaint for a period of time, it automatically forward to higher officials. It also improve the working speed of the officers because all their works will monitor by their higher officials. Finally there we are storing all these

huge data in cloud for promoting high access and storage process.

C. ARCHITECTURE

The working model showed above describes the basic architecture of this web application and showed features that are built in this application to make this as user friendly for uneducated village people and useful for all human being who are interested to make change in society.

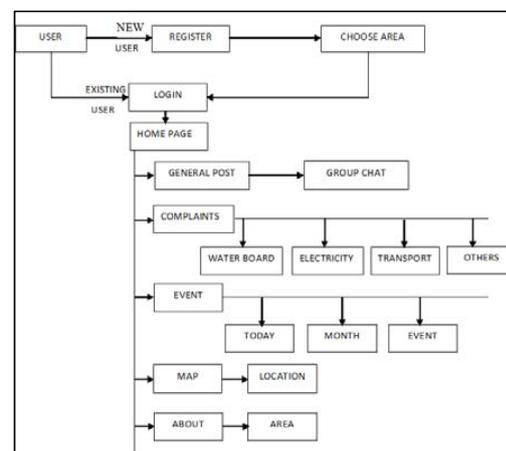


Figure 1: System Architecture

D. IMPLEMENTATION AND RESULTS

a) Implementation

In our system, we make the people to interact with each other by sharing their thoughts and interact with government officials in a cloud portal. They get interested to take part in all event. In this all the complaints will post in common page and if action is not taken on that complaint for a period of time, it automatically forward to higher officials. It also improved the working speed of the officers because all their works will monitor by their higher officials. Finally there we are storing all these huge data in cloud for promoting high access and storage process. They solved issues from existing system in our system .

b) Results

They solved issues from existing system in our system which have the problem in image processing and location of area.

E. SCREEN SHOTS

a) My Digi Area

Figure 2 shows My Digi Area is web based application



which used to complaint for the basic needs of people and government event which are used to planned for the people.

Figure 2: My Digi Area

b) Login Page



This is our Login Page of proposed system. A individual who had already registered in this page can directly login to use their portal shown in Figure 3.

Figure 3: Login Page

c) Register Page

This is register page for new account of our proposed system. In this user have to enter their "Aadhar

Number" for registration which ensure the duplicate user registration, single user cannot hold more than one "id" shown in Figure 3.

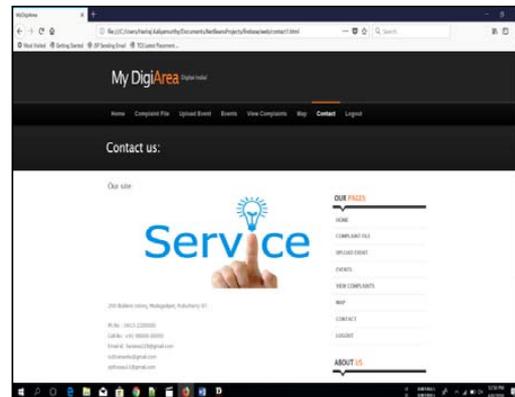


Figure 3: Register Page

d) Home Page

Figure 4 shows this is one division of home page in proposed system. Event Page can allow the user to know the current and upcoming events in their surrounding.



Figure 4: Home Page

e) Complaint Page

Figure 5 shows one of the division of home page in proposed system. Here user can upload their complaint in many criteria as given in this page.

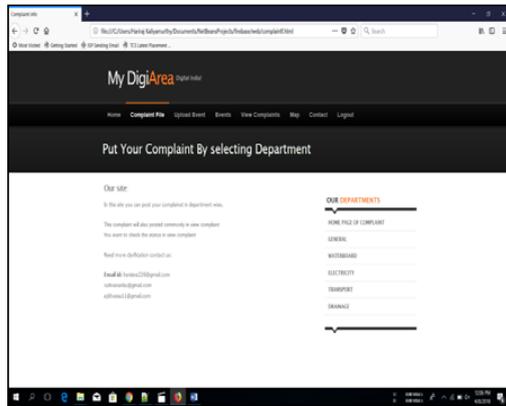


Figure 5: Complaint Page

f) Water Board Complaint Page

Figure 6 shows one of the division in complaint page of proposed system. Here user can upload their complaint in “Water Board” criteria as given in this page. It consists of Name, Subject, Complaint and Image uploading options which ensure the user friendly application.

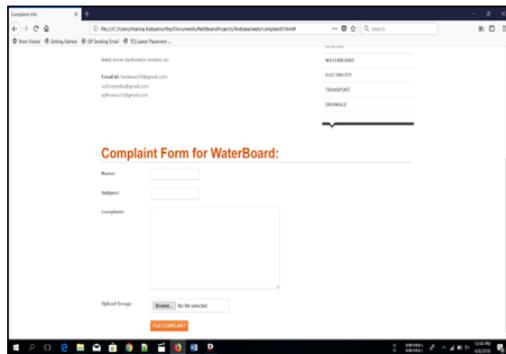


Figure 6: Water Board Complaint Page

g) Transport Complaint page

Figure 7 shows one of the division in complaint page of proposed system. Here user can upload their complaint in “Transport” criteria as given in this page. It consists of Name, Subject, Complaint and Image uploading options which ensure the user friendly application.

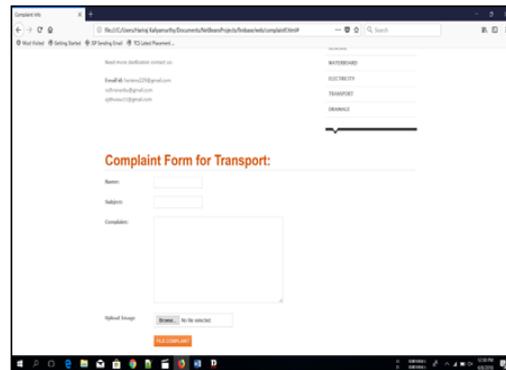


Figure 7: Transport Complaint Page

h) Event Page

Figure 8 shows the event page of proposed system. Here user can upload the event which can be viewed by other users. It consists of Name of Event, Date, Place, Description and Image uploading options which ensure the user friendly application.

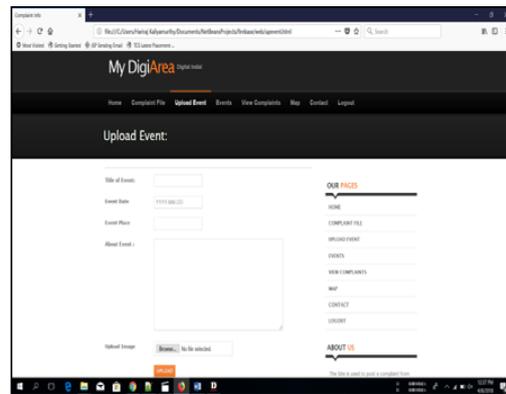


Figure 8: Event Page

i) Map Page

Figure 9 shows the map page of proposed system. Here user can view their location. And also can view the location they need which reduce the time in finding the particular event location as they required.

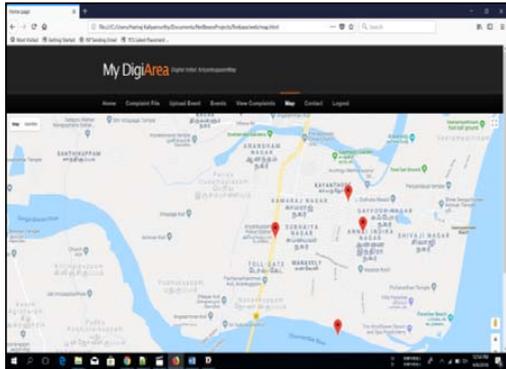


Figure 9: Map Page

j) User Contact Page

Figure 10 shows the contact page of user in proposed system.

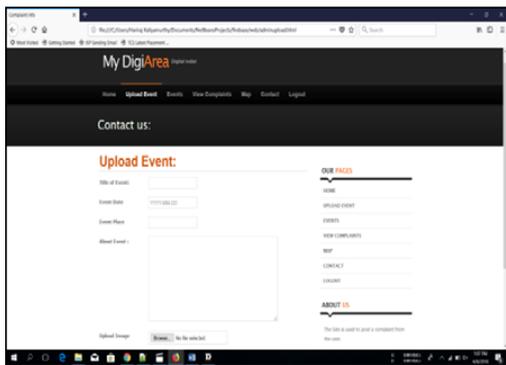


Figure 10: User Contact Page

k) Admin Login Page

Figure 11 shows the admin's login page of proposed system. Here admin can also upload the event, view the users complaint, view the map location, etc.

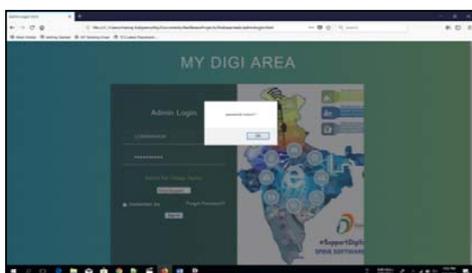


Figure 11: Admin Login Page

l) Admin Event Page

Figure 12 shows the admin's event page of proposed system. Here admin can also upload the event, view the users complaint, view the map location, etc

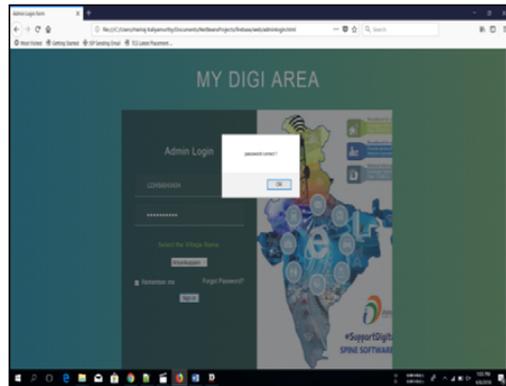


Figure 12: Admin Event Page

m) Admin Logout Page

Figure 13 shows the admin's logout page of proposed system.

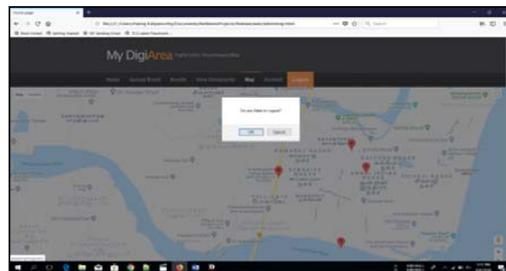


Figure 13: Admin Logout Page

F. PERFORMANCE ANALYSIS

Performance of our system is relatively high when compare to existing system. Basically it has been improved in two major criteria such as following:

- 1) Here image uploading has inserted for the user friendly operation which is not available in existing system.
- 2) Map location finding is included which can be used for easily finding the locations

G. EXISITING SYSTEM

In existing system, they implemented the online complaint management system with less features. But it could not handle huge user data if more number of user register the portal. And also image uploading option is not exists in existing system which cannot be user friendly in nature. Likewise Map location finding option also not exists in existing system, it could find difficult in determining the exact locations of events, program, etc.

H. PROPOSED SYSTEM

In terms of storage system of our proposed system, here used the cloud storage for storing the user data. But it is not exists in existing system.

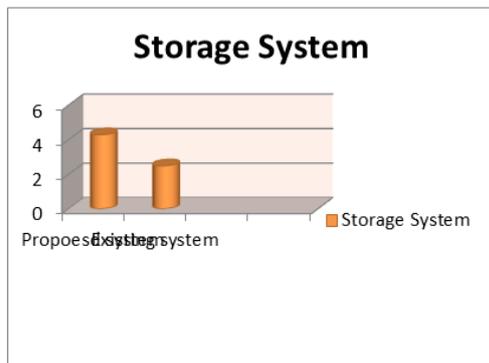


Figure 14: Storage System

In terms of image uploading, in existing system cannot upload any image by both the user and admin. But in our proposed system user and admin can upload any image for others view.

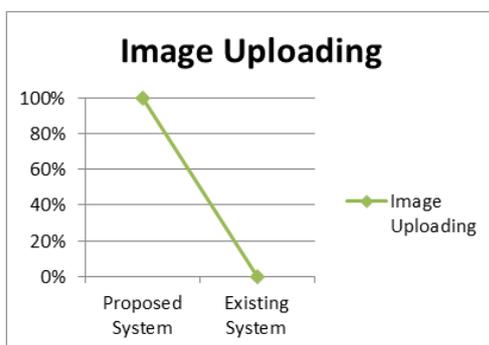


Figure 15: Image Processing

I. CONCLUSION

Cloud computing is widely used by users and organization to get benefit of many services in cloud. Huge datasets in cloud persuade users to outsource their information and documents to the un-trusted Cloud Service Provider (CSP). Other part, there are some privacy and security problems in cloud storage considering as main drawbacks of extending it among users. However, this prevents user to search the outsourced documents directly. In existing system online complaint management system has many issues like storage problem, image uploading, etc. And cloud providing many features for storage. In our system also we are using cloud for storing huge data in terms of storage and security purpose. We proposed a new dimension to cloud for storing the free social data for security. It act as a free portal for sharing an individual thoughts and ensuring the awareness of surrounding and ruling government. Future enhancement is expanding many features to ensure high user friendly application.

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