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Apartment Mangement System

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ABSTRACT

An infrastructure build in the mobile platform i.e., apartment management system for complaint tracking system which is reliable in commercial and non-commercial high data cluster modeling. This project is mainly focuses that the apartments user's essential needs has been revoked some issues occurred in the apartment. The secretary will analyze the issues which will be stored in cloud server and solve the problem as soon as possible. Now the process is done by attaching a camera in main door of all flat doors. First we have to register all the known people of our family and then access the camera in our doors. This a mobile application. If any unknown person are nearby our door it will give an alert. This will helps all the users in the apartment systematically and contribute their issues to be solved. This paper presents the various methods in which we can manage the each flat in an apartment using cloud. And makes the current situation in the so apartment simple and efficient. And get rid of unknown person attacks and relief from robbing, theafts, murder etc,As we know there is an increase in population and also the housing complexes.

Keywords : Cloud Computing, Google Apps, IT infrastructure, UPS, FedEx, US Postal Service

I. INTRODUCTION

Cloud Computing

- Cloud computing is an umbrella term that is used to refer Internet based development and services.
- **Cloud computing** is a **computing** that relies on shared **computing** resources rather than having local physical servers or personal devices to handle applications.
- In simple, Cloud means shared pool of resources which can be through the internet.
- History of Cloud Computing
- Before the invention of cloud computing, there was a Client/Server computing which a centralized storage in which all the software applications, all the data and all the controls are stored on the server side.
- If a user need to access specific data,he/she can access it and just pay for what he/she used.
- Then after, distributed computing came into picture,computers are connected together as a network to share the resources.
- On the basis of above computing ,cloud computing is emerged.
- At around in 1961, John Mac Charty suggested in a speech at MIT that computing can be sold like a utility, just like a water or electricity. It was a brilliant idea, but like all brilliant ideas, it was ahead if its time, as for the next few decades ,the technology has faded away.
- But of course time has passed and the technology caught that idea and after few years we mentioned that:
- *In 1999,* **Salesforce.com** *started delivering of applications to users using a simple website.*
- *In 2002,* **Amazon** *started Amazon Web Services*, services provided are storage, computation and even human intelligence i.e artificial inelligence. However, only starting with the launch of the Elastic Compute Cloud in 2006 a truly commercial service open to everybody existed.
- *In 2009,* **Google Apps** also started using cloud computing in their applications.

KEY PRINCIPLES OF CLOUD COUMPUTING

1. Enablement: Plan for cloud computing as a strategic enabler, rather than as an outsourcing arrangement to a technical platform.
2. Cost/benefit: Evaluate the benefits of cloud acquisition based on a full understanding of the costs of cloud compared with the costs of other technology platform business platforms used to be simple you just need to pay for what you have used.
3. Enterprise risk: Take an enterprise risk management perspective to manage therisk used in the cloud.
4. Capability: Integrate the full extent of capabilities that cloud providers offer with internal resources to provide a sound technical support and delivery solution.
5. Accountability: Manage accountabilities by clearly defining particular tasks.
6. Trust: Make trust an essential part of cloud solutions, this will ensure the security of the system.

CLASSIFICATION OF CLOUD COMPUTING:

Public Cloud Computing – is the IT infrastructure that many companies and services use this at the same time. Data users of the clouds are not able to manage and maintain this cloud, the entire responsibility for these matters rests with the owner of the cloud.

Private Cloud Computing – A secure IT infrastructure is controlled and operated for the benefit of a single organization. Organization can have its own private cloud that can be used within the organization. Infrastructure can be placed either on the site of the customer, or in a data center. Ideal private cloud is the cloud that is deployed in the organization site, served and controlled by its employees.

Hybrid cloud Computing – Is the IT infrastructure using the best cocept of public and private clouds, to do the task. Often this type of cloud is used when an organization has seasonal periods of activity.It is a combination of both public and private cloud computing.

APPLICATION OF CLOUD COMPUTING ;

MediaFire, megaupload, hotfile, 4Shared, rapidshare, yourfilehost are examples that are used to host imagrs,documents,audio,video etc..

1) Photo Editing Software

Picnik, Pixlr, etc. are popular free online photo editing software. This online software that has various features such as cropping of the image, resizing,blemishing,rotation based on degrees, special effects, addition and editing features are also included in a GUI (Graphical User Interface) format.

2) Digital Video Software

Hulu is a free application for videos that are found online for free using which we can edit and trim videos. There are other popular video sites like - WatchMoviesOnline, the most famous YouTube, Google video, etc.

3) Twitter-Related Applications

One example is bit.ly which converts long URL into a short small-sized unique URL. When a user clicks that small unique URL, it redirects the user to that real website. Sometimes it seems harmful as hackers can put malicious attachments or programs with it which can further affect the user..

4) Creating Image Album

Some of the examples are flickr, photobucket, webshots, imagebam and ziddu that allows users to host images on the web. These sites are a part of the cloud that allows users to organize images into albums and create slideshows for free.

5) Web Application for Antivirus

One example is Cloud Antivirus, this application on the cloud is provided by Panda Security - a Spanish company which provides functionality to keep the virus away from a clean system and also detects and

fix a system infested with malware or other forms of computer viruses.

6) Presentation Software

Sliderocket is an online free application to create a presentation. It allows importing of Microsoft's PowerPoint presentations. Since it is a web-based cloud application, the presentations.

7) Word Processing Application

Writeboard is another online word processing and document editing application. It has a unique feature that multiple users can access the same document using this application, edit that document and save the document after editing,

8) Finding a Way on the Map

Another area where cloud applications became worth popular was finding directions and locations on the web. The leading sites are mapquest, Google Maps, and Yahoo Maps. They are the most useful free online application that helped millions of users in various ways by showing direction and paths and helped people get to their destinations over the last decade.

9) E-Commerce Software

Cloud based e-application allows users and e-business to respond quickly to market opportunities & challenges the modern e-commerce is facing. It became for business tycoons to focus on the usage of cloud computing without considering the time and effort involved in implementing a reliable solution.

Miscellaneous Applications

One of the 1st utilization of free SaaS applications is to check for the status of packages & items. Applications such as UPS, FedEx, US Postal Service, etc. provide free tracking of packages online. Another application name - XE provides services online from foreign exchange tools.

II. LITERATURE SURVEY

A: Purpose of the document :This paper is the Software Requirement Specification (SRS) for the Apartment Management System. The purpose of this paper is to describe the functionality, requirements and general interface of our project.

B: Scope for development of this paper This project will help the builder to manage day to day transactions very easily. By making it as a general project we can sell this project to many builders.

C: Main Modules of the system Admin: In this module admin will login and configure apartment add new tenants, bills, expenses and send notifications to tenants. Admin can add/edit/delete the tenants, and he/she can view the student's feedback.

Tenant: In this module warden will manage student outing details. (Like accept or reject) and can send total members of active student in hostel to mess in charge through SMS. She/he sends SMS to parents, students regarding outing. Student: In this module student can send request for outing to warden, can view outing details and can give feedback regarding the hostel or warden.

III. EXISTING SYSTEM

As we all are aware of the current housing society management system which is handled manually. The data is stored in the files and the processing of the data is done manually and the report generation is slow. Data which is required cannot be accessed quickly. The data is stored in various registers so the linking between it becomes difficult. Voting is conducted in the society for various designations like secretary, treasurer, chairman, etc members need to be present on the site for voting. Due to some reasons some members cannot be present & cast vote. Our proposed system has a feature of online voting which will provide anytime anywhere access to the members. Booking a hall for celebration in a features of society which are exact replica of the real happenings in the society.

IV. PROPOSED SYSTEM

OBJECTIVE :. Generally, in society all the work is decided in contact no of members are noted on the papers. There is no automated system for doing all

the things that generally happen in society, so that members can come to know what is happening in society. This system of maintaining a society is made in such a way, so that the most common problem faced in residential societies are solved. This system is a cloud based system to manage day-to-day activities of any co-operative housing society. They require the co-ordination among the respective management societies coupled with the vendors which provide these services so that the appropriate convenience can be provided. The main functionality of this project is that, there is a online billing and accounting (payment gateway integration, income & expense tracking,etc.).In this system the bills, receipts and vouchers are created in easy manner also the system is user friendly. sing very high resolution remote sensing images to extracting urban features from very high resolution remote sensing images is a very complex and difficult task. The improvement in geospatial technologies brought forward many solutions that can help in improving the process of urban feature extraction. Data collection using light detection and ranging (LiDAR) and capturing very high resolution optical images concurrently is one of these solutions. This research proves that the fusion of high-resolution optical image with LiDAR data can improve image processing results. It is based on increasing urban features extraction success rate by reducing oversegmentation. The fusion process relies first on wavelet transform techniques, which are run several times with different parameters (rules). Then, an innovative technique is implemented to improve fusion process. The two techniques are compared, and both have reduced fragmented segments and created homogeneous urban features. However, the fused image with the innovative technique has improved the accuracy of the segmentation results. The average accuracy for building detection is 96% (maximum 100% and minimum 92%) using the innovative technique compared to 21% and 51% for no fusion and wavelet-fusion-based techniques. Furthermore, an index is used to measure the quality of the building details which are detected after using the innovative fusion technique. The result indicates that the quality index is greater or equal to 86%.

IMAGE PROCESSING UNIT:

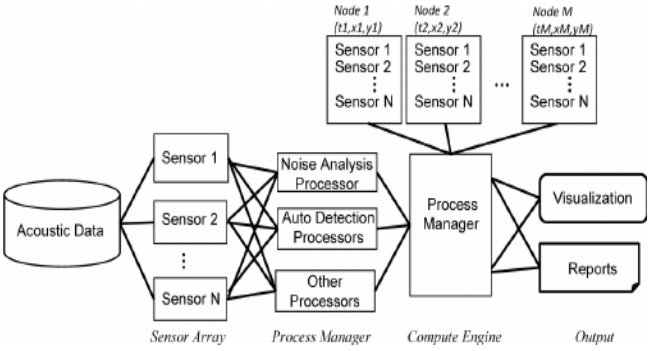
Image processing is a method to perform some operations on an image, in order to get an enhanced image or to extract some useful information from it. It is a type of signal processing in which input is an image and output may be image or characteristics/features associated with that image. Nowadays, image processing is among rapidly growing technologies. It forms core research area within engineering and computer science disciplines too.

Image processing basically includes the following three steps:

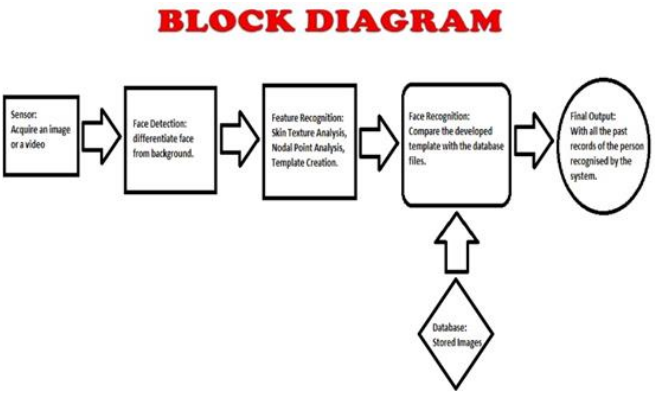
- Importing the image via image acquisition tools;
- Analysing and manipulating the image;
- Output in which result can be altered image or report that is based on image analysis.

There are two types of methods used for image processing namely, analogue and digital image processing. Analogue image processing can be used for the hard copies like printouts and photographs. Image analysts use various fundamentals of interpretation while using these visual techniques. Digital image processing techniques help in manipulation of the digital images by using computers. The three general phases that all types of data have to undergo while using digital technique are pre-processing, enhancement, and display, information extraction.

In this lecture we will talk about a few fundamental definitions such as image, digital image, and digital image processing. Different sources of digital images will be discussed and examples for each source will be provided. The continuum from image processing to computer vision will be covered in this lecture. Finally we will talk about image acquisition and different types of image sensors



FACE RECGNITION:



Facial recognition is a way of recognizing a human face through technology. A facial recognition system uses biometrics to map facial features from a photograph or video. It compares the information with a database of known faces to find a match. Facial recognition is a biometric software application capable of uniquely identifying or verifying a person by comparing and analyzing patterns based on the person's facial contours. Facial recognition is mostly used for security purposes, though there is increasing interest in other areas of use Face unlock analyses through the front camera, over 100 identifiers on your face such as the distance between your eyes or between your nose and upper lip. We have included numerous parameters, so that Face Unlock works in different lighting conditions as well as when you are wearing glasses. The device has a face unlock feature which is a little different than its other Android counterparts. Incorporating a technology called Intelligent Scan, the device scans not only the users face, but also the iris.

V. FUTURE WORKS:

This can be implemented by mainly adding sensors in the doors, due to cost problem we didn't implemented the work as needed. Hardware implementation can be done automatically.

VI. CONCLUSIONS

Through our system first we have provided the communication between user and the admin and their services. User can know place profile and information about problems they are facing in their flat. user's essential needs has been revoked some issues occurred in the apartment. The secretary will analyze the issues and solves the problem which is stored in cloud as soon as possible. Once the complaint has been solved, they will reviewed their feedback. Society management system come up with the actual working of a society, by working "in the cloud," where housing society management providers can rapidly implement and operate applications that are secure and not expensive, while enjoying lower maintenance and upgrade costs throughout the relationship. Message and alerts for various happenings in the society can be added to the system

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