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Online Housing Society Management System

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Abstract— This paper presents the various methods in which we can manage the housing society by a system which is created using cloud. And makes the current situation in the society simple and efficient. As we know there is an increase in population and also the housing complexes. Society management system reduces the conflicts that arise within the society by providing facilities such as online bill payment, online voting system, online hall allocation ,etc. It automates certain things that occur within the society and makes it easy for the members of the society an easy access to the society happenings and on goings. It is necessary to facilitate the management of these societies on an online cloud based which is user friendly platform. Software coupled with reliable hardware allows developers to create multitenant applications very easily. These system is able to support millions of users without any maintenance from the developer.

Keywords— bye laws , datepicker , web based, SMOOnline, cloud;

I. INTRODUCTION

Generally , in society all the work is decided in meetings and maintenance bills, 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.

II. 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 society was a difficult work as details were on paper and were only accessible only to the authority which may create confusion when more than one people want to celebrate in same hall . This software system generates maintenance bill automatically and manually.

It generates bill for all members at single click. In this system bills can be generated as per multiple of months i.e. monthly or yearly,due day of bills can be assigned. This software concentrates mainly on generation of bills whereas our system consists of various other features of society which are exact replica of the real happenings in the society.

III. PROPOSED SYSTEM

Our proposed system is cloud based and has automated functionality for generating monthly maintenance and member can view their bill status on their account. The main functionality of our project is that, there is a online bill payment system, online voting system for different society positions like Secretary, Chairman, Treasurer Etc. Members can vote the candidates that are standing for different roles in society. This System allows members to login with their own account and get updated with society happenings. Datepicker is a JQuery function that allows user to select date in user friendly manner for allocation of dates.

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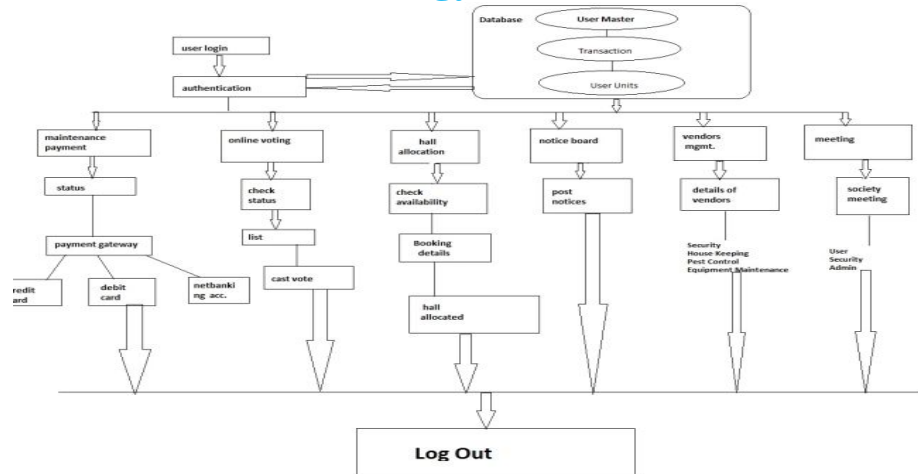


Fig.1 Diagram for SMOnline System

There are various ways in which we can implement our system like on local server, on website but there are some drawbacks using the system so we have come up with the concept of cloud.

A. SMOnline on local server

- 1) In this type, the system is implemented and deployed on a local server existing in the housing complex itself.
- 2) These systems can be handled by only the society manager, they are difficult to use and even more difficult to implement because of various needs of different societies.

B. SMOnline on website

- 1) In this type the SMOnline is based on a website server. This type is based on a website and requires an internet connection.
- 2) The main problem with this system is that even if it is on a website, the application needs to be edited as per the requirement of the society. This proves to be a expensive and tedious task.

C. SMOnline on cloud

- 1) This is the latest way to implement SMOnline. It provides all the features of the above type along with the additional feature of a multitenant cloud platform.
- 2) Multi-tenancy allows a developer to develop a single application and cater it to various needs of different societies.
- 3) Another major plus point about cloud is that it is economically efficient and there is no down time on the system.
- 4) The data of the system is secure because it is automatically backed up by the cloud.

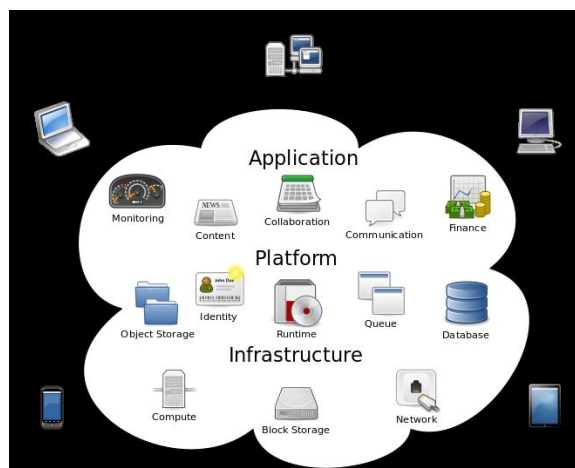


Fig.1 Diagram for cloud computing

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The following modules are included in our project:

A. User Management

SMOnline allows societies to create user accounts for each member in one of the following 2 ways:

- 1) Add members individually using the system admin console
- 2) Add several users at once by uploading their details in a spreadsheet.
- 3) On successful account creation, the system sends an automated email, containing the user ID and password, to every member.
- 4) The system implements role based access control. Thus, every user account is assigned a role which acquires permissions to perform system functions, defined for a particular role.

B. Vendors Management

- 1) Details of vendors providing different services like Security, Housekeeping, Pest Control, Equipment Maintenance etc. can be stored and managed with SMOnline.
- 2) For all AMC contracts, the system will track details such as due dates for payments, designated assets, date of servicing, contract renewal dates, etc.

C. Income Tracking

- 1) Raise invoices against all flats or select flats based on area or based on a fixed amount.
- 2) Setup Recurring Invoices to automatically post invoices on a given date
- 3) Members receive email and SMS whenever an invoice is raised against their unit
- 4) Advance payments or partial payments can be easily noted and tracked against any flat
- 5) Track Non-member income such as stall rentals, bank interest paid etc under separate heads
- 6) Select and send email/SMS reminders to defaulters on the payments to be made.

D. Expense Tracking

- 1) Enter Bills provided by Vendors, Track payments made against each bill, with service tax paid and TDS deducted
- 2) Segregate expenses between Capital Expenditure versus Maintenance Expenses
- 3) Record and track ad-hoc expenses of the apartment association under various heads
- 4) Record fields such as expense description, expense date, payment mode, to whom was it paid etc.
- 5) Uploaded Expenses in an excel format
- 6) Get Budget Variance Reports to monitor if the spending is as per plan
- 7) Query and view expense statements for any month or multiple months
- 8) Download the expense statements in excel or print the expense reports directly
- 9) Treasurer can publish expense statements to notice board and to owners at the click of a button

E. Payments

- 1) With SMOnline, society members can pay their dues (monthly maintenance charges, penalties, additional contributions for special events, etc.) online using a credit card, a debit card or a Net Banking account.
- 2) On successful payment of dues, members receive instant e-receipts which can be saved or printed for future reference.
- 3) Members can view/download receipts for all past payments online at anytime

F. Online Notice Board

- 1) Notices can be posted to everyone in the complex.
- 2) All notices will additionally be emailed to the members (based on the notification settings).
- 3) All notices will be visible on the online Notice Board till the expiry date of the notice

G. EMAIL Broadcast

- 1) Administrators can send instant messages by Email to all members
- 2) Useful in case of emergencies or to communicate important messages urgently
- 3) Shortcuts to send messages to different category of members - such as all owners, tenants, committee members of the

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society association, administrator

H. Classifieds

- 1) Post Buy, Sell, Rent Classifieds
- 2) Search for offers from trusted network of other apartment owners

I. Meetings Management

- 1) Manage all kinds of society meetings.
- 2) Easily generate meeting notice, agenda, minutes of the meeting, note the attendances and more online.

IV.RESULTS

A. To Add new Society in System

SMOnline v 1.0 Home Society Communications Billing & Accounts Reports

Add Units.

Create a new unit

Use this area to provide additional information.

Unit Number

Wing/Block

Unit Type

Usage

Unit Size (sq. mt.)

Unit Size (sq. ft.)

Terrace Size (sq. mt.)

Terrace Size (sq. ft.)

Number of bedrooms

Current Status

© 2016 - SMOnline v 1.0

B. To register

SMOnline v 1.0 Home Society Communications Billing & Accounts Reports

Register.

Create a new account

Use this area to provide additional information.

First Name

Middle Name

Last Name

Mobile

Email

Password

Confirm password

Society Name

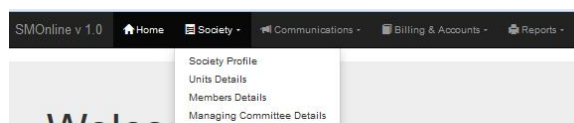
Society ID

Society Type

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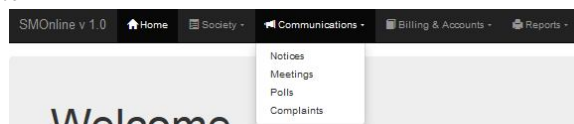
C. Menu Bar of Society Module



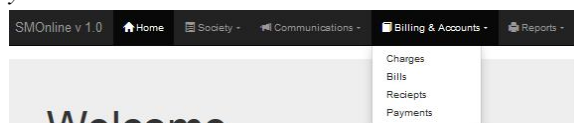
D. To Create Society Profile

The screenshot displays the 'Society Profile' form within the SMOOnline v 1.0 application. The form is titled 'Society Profile' and includes a subtitle 'Provide society contact, tax, registration and committee members details'. It is divided into three main sections: 'Society Contact Details' with fields for Address Line 1, Address Line 2, Landmark, City, State, and Pin; 'Society Registration Details' with fields for Registration Number, Registration Date, Authorized Share Capital, and Total Shares; and 'Society Tax Details' with fields for Society TAN and Society PAN. A 'Save' button is located at the bottom right of the form.

E. Menu Bar of communication Module



F. Menu Bar of Billing & Accountancy Module



V. CONCLUSIONS

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 Email alerts for various happenings in the society can be added to the system so that users do not miss the updates and happenings of the society.

Online billing sytem, Administration, working, online voting, etc. are the key features of our project. The software is flexible enough to be modified and implemented as per user requirements. We have tried our best to make this system free and user–friendly website to Society members.

It is a timely and cost effective solution to your society management problems which will make you money, save you money and make your job easier.

VI. FUTURE SCOPE

This project can be enhanced further by Developing a Mobile App. Also we can Develop a Full Fledged accounting module. The software is flexible enough to be modified and implemented as per future requirements.

VII. ACKNOWLEDGMENT

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