A Mini Project Synopsis on

SOCIETY REGULATION

S.E. – Computer Science and Engineering-Data Science

Submitted By

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OF MUMBAI

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CERTIFICATE

This to certify that the Mini Project report on **Society Regulation** has been submitted by

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Technology, Thane, Mumbai, as a partial fulfilment of the requirement for the degree in

Computer Science and Engineering(Data Science), during the academic year **2022-2023**

in the satisfactory manner as per the curriculum laid down by University of Mumbai.

Prof.Vaibhav Yavalkar
 Guide

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1.
2.

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Date:

TABLE OF CONTENTS

Chapter 1

Introduction

This system is developed to manage day-to-day activities of any co-operative housing society.Generally , in society all the work is manually. Contact no of members are noted on the papers. As all work is done on paper so it is very difficult to manage and keep track of all the work expenses in the society. This society co operative society management system will computerize all day to day operation in the society. This System also keep the details of service providers who provide different services like Security, Housekeeping, Pest Control, Equipment Maintenance etc. 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 is also Raise invoices against all flats or select flats based on area or based on a fixed amount.This system of maintaining a society is made in such a way, so that the most common problem faced in residential societies are solved. Using this system Advance payments or partial payments can be easily noted and tracked against any flat. 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 an online billing and accounting. In this system the bills, receipts and vouchers are created in easy manner also the system is user friendly. Admin can also keep track of expenses using this system. Admin can retrieve report of expenses it includes service providers bill.

1.1 Proposed System

Our proposed system has automated functionality for generating monthly maintenance. Housing society management system allows societies to create user accounts for each member in two ways. The main functionality of our project is that, there is a online bill payment system. Admin can add members individually using the admin module. Admin can add several users at once by uploading their details in a spreadsheet. Members can vote the candidates that are standing for different roles in society. When member account is created, the system sends an automated email to the member whose account is created. This System allows members to login with their own account and get updated with society happenings.

1.2 Objectives

1. It can be used in residential societies where apartments are ranging from small to big in members.

2. To convey notices or other information among others which is necessary but not feasible using primary resources such as notice boards.

3. Develop a user-friendly interface that is easy to navigate and use.

4. Create a system that can store resident details and track their payments and dues.

5. Enable residents to raise complaints and track their status.

6. Allow society managers to assign tasks to staff and track their progress.

7. Develop a system that can generate reports on the society's performance.

1.3 Scope

1. Effective management of users through login based control.
2. Reduces efforts and time for conveying message manually.
3. 3Reliable and transparent.

4. Easy management of financial and accounting transactions.

5. Platform friendly software.

6. Privacy of data.

Chapter 2

Problem definations

In current housing society management system all society works are done manually. Society chairman keep all the society expenses report on paper file. If some time this data is needed then retrieving this data is very slow and tiresome work. Society expenses and earning 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. This problem need to be solved so that all society member can take part in the voting. Generating bill and sending it to each society member is also a tiresome work. Sometime members did not get bills and it is lost. Payment collection is also big task in society. Watchman has to go each flat to collect the payments. In current system all work is done manually so each work takes more time. Sending notice or other message to society members is also a big task. so an system is needed that can solved all above problems.

CHAPTER 3

Features and Functionalities

A society management system is a web-based application that allows homeowners associations or gated communities to manage their society's information, such as resident details, maintenance, and complaint tracking. Here are some of the key features of a society management system:

- Resident Management: The system can store resident details, including their contact information, payments, and dues. Society managers can easily access and update this information whenever needed.
- Complaint Management: Residents can raise complaints through the system, and society managers can assign tasks to staff to resolve them. The system enables society managers to track the progress of the complaint and ensure timely resolution.
- Maintenance Management: Society managers can schedule maintenance tasks, assign them to staff, and track their progress. The system can also generate maintenance reports that provide an overview of the maintenance activities performed within a specific time period.
- Payment and Dues Management: The system can track resident payments and dues, including outstanding balances and payment history. Society managers can easily generate invoices and receipts for residents and manage payment reminders.
- Document Management: The system can store and manage all essential society documents, including society rules and regulations, financial reports, and meeting minutes.
- Communication Management: The system can enable communication between society managers, residents, and staff. Society managers can send notifications and announcements to all residents or specific groups of residents based on their needs.
- Reporting: The system can generate reports on resident details, complaints, maintenance tasks, payment and dues, and other relevant information. These reports can provide insights into the society's performance and help society managers make informed decisions.
- Security: The system is designed with robust security features, including role-based access control, data encryption, and regular backups, to ensure the privacy and confidentiality of society data.
- Event Management: The system helps in managing and scheduling society events, including festivals, celebrations, and other activities.

Chapter 4

Project Outcomes

The project outcomes of a society management system are The system helps society managers manage their society's operations efficiently, enabling them to focus on other critical aspects of society management.The system enhances the overall living experience of residents by providing them with a platform to report complaints, track maintenance, and access essential society information.The system facilitates transparent communication between society managers, residents, and staff members, enabling them to stay informed about the latest society updates and announcements.

The system offers robust security features, ensuring the privacy and confidentiality of society data.The system simplifies payment and dues management, enabling residents to make payments quickly and efficiently.The system maintains accurate records of resident details, maintenance tasks, complaints, and other essential society information, helping society managers make informed decisions.The system generates reports and analytics on society data, enabling society managers to monitor the society's performance in real-time and make data-driven decisions.

Chapter 5

Software Requirements

The Software Requirements Specification is produced at the culmination of the analysis task. The function and performance allocated to software as part of system engineering are refined by establishing a complete information description, a detailed functional and behavioral description, an indication of performance requirements and design constraints, appropriate validation criteria, and other data pertinent to requirements.

The software and technology stacked used in development of an automated resume builder are:-

- IDLE(Python 3.11 64 bit)
- MySQL is a Database Management System MySQL,
   the most popular Open Source SQL database management system Is developed, distributed, and supported by Oracle Corporation.
- MySQL version-14
- Database Done in MySQL
- Front End: Pycharm 22.3.2
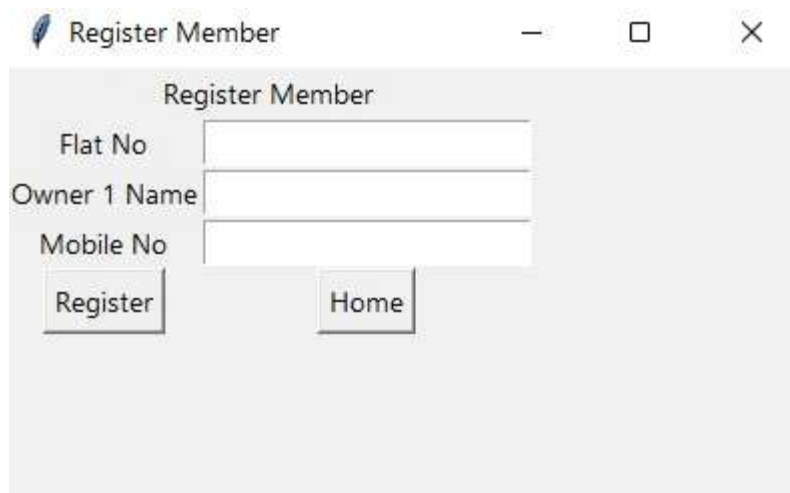- Back-End: MySQL

Chapter 6

Project design

- Admin Module :- used for managing information about admin and user .

- Login module: used for managing the login details.

- Users module: used for managing the users information.

- Registeration Module:- new user can be registered .

- Complaint Module :- User can give their opinion and complaint.

- Maintainance Module :- User can pay their bill.

Fig 1. Login Page

Login page consist of field to enter Username , Password for user and a Login button and back button the search button will login the inputted username & password in the database and if the username and password is present you will be taken to the result display page but if not a error will be popped displaying Username and password is incorrect, sign up is self explanatory it will take you back to sign up page.

Fig 2.Register Page

New Member can register and will get the unique username and password after the successful registration.

Fig 3. Admin page

Admin can see New member can join he /she can Manage the member admin can add notice using notice button and admin can see any complaint is given by user or not.

Fig 4. User page

User can add complaint in complaint button. User can also generate the maintenance bill in bill section.

Fig 5. Bill Page

User can add ther details for paying the bill like cheque no. , Flat no.

Chapter 7

Project scheduling

A society management system typically involves breaking down the project into smaller tasks and assigning timelines to each task. The scheduling process helps ensure that the project is completed within the specified timeline and budget. Here are the steps involved in project scheduling for a society management system Identify tasks: The first step is to identify all the tasks required to complete the project, including requirement analysis, system design, development, testing, deployment, user training, and maintenance. Break down tasks: Break down each task into smaller sub-tasks that are easier to manage and estimate.Determine task dependencies:Identify the dependencies between tasks to determine the order in which tasks should be completed.

Estimate task durations: Estimate the time required to complete each task, based on the complexity and size of the task.

Assign resources: Assign resources to each task, including project managers, developers, testers, and trainers.

Determine critical path: Identify the critical path, which is the sequence of tasks that must be completed on time to ensure the project is completed within the specified timeline.

Create project schedule: Use a project scheduling tool, such as Gantt chart, to create a project schedule that outlines the timeline for each task, the resources assigned to each task, and the critical path.

Monitor progress: Regularly monitor progress against the project schedule to identify any delays or issues and take corrective action as necessary.

project scheduling for a society management system involves identifying tasks, breaking down tasks, determining task dependencies, estimating task durations, assigning resources, determining the critical path, creating a project schedule, and monitoring progress. A well-planned project schedule helps ensure that the project is completed on time and within budget, delivering a functional and reliable society management system.

PROJECT TITLE	Society Hub	INSTITUTE & DEPARTMENT	A P SHAH INSTITUTE OF TECHNOLOGY/Info
PROJECT GUIDE	Prof. Vaibhav Yavalkar	DATE	4-19-23

WBS NUMBER	TASK TITLE	TASK OWNER	START DATE	DUE DATE	DURATION (Weeks)	PERCENTAGE OF TASK COMPLETE
1	Project Conception and Initiation					
1.1	Group formation and Topic finalization, Identifying the scope and objectives of the Mini-Project	1.1-Urvi-Pooja-Sakshi-Tanvi	2-6-23	2-10-23	2	100%
1.2	Identifying the functionalities of the Mini Project	1.2-Urvi-Pooja	2-14-23	2-15-23	1	100%
1.3	Discussing the project topic with the help of paper prototype	1.3-Urvi-Pooja-Sakshi-Tanvi	2-07-23	2-16-23	1	100%
1.4	Designing the Graphical User Interface(GUI)	1.4-Urvi-Pooja-Sakshi-Tanvi	2-16-23	2-9-23	3	100%
1.5	Presentation I	1.5-Sakshi-Tanvi-Pooja-Urvi	3-6-23	3-6-23	1	100%
2	Project Design and Implementation					
2.1	Database Design	2.1-Urvi-Sakshi-Pooja-Tanvi	3-6-23	4-19-23	1	100%
2.2	Database Connectivity of all modules	2.2-Urvi-Sakshi-Pooja-Tanvi	3-20-23	4-19-23	1	100%
2.3	Integration of all modules and Report Writing	2.3-Sakshi-Pooja-Tanvi	3-20-23	4-19-23	1	100%
2.4	Presentation I	2.4-Urvi-Pooja-Tanvi-Sakshi	4-20-23	4-20-23	2	100%

Gantchart

Chapter 8

Conclusion

The entire solution will provide a hassle free, user friendly affordable communication platform to develop healthy relations between hosing society members and a smarter way of interconnectivity. Chairman or secretary will play the role of administrator allowing registration of residents so that they can use these registration details to login and to access the services. This project may use concepts of data mining and artificial intelligence And economical management for future work . The Society Management System will provide a centralized platform for the residents, staff, and management to manage the operations of the society effectively. The system will streamline various functions such as payment processing, complaint registration, staff management, visitor management, facility booking, maintenance request, etc. The system will be developed using web technologies python3,pycharm,IDLE (Python 11.2).The system will be user-friendly, easy to navigate, and provide the necessary features to meet the requirements of the society management.

Reference:-

- Studentsproject.live
- [PHP Project on Society Management System with MySQL - YouTube](#)
[Youtube Video]

ACKNOWLEDGMENT