

A
Project Web Report On
Housing Society Management System
website

Submitted To

University Of Mumbai

IN

**PARTIAL FULFILLMENT OF
B.SC IN COMPUTER SCIENCE**

Submitted By

Gaurav Umesh Malankar

BSC SEMESTER V

Under the Guidance of

Prof. Mr. Vinay V. Duple.

THROUGH

**DEPARTMENT OF COMPUTER SCIENCE,
Kankavli College, Kankavli.
Duration: 2024-2025**

Developed By- Gaurav Umesh Malankar

DECLARATION

To,

THE HEAD,
DEPARTMENT OF COMPUTER SCIENCE,
KANKAVLI COLLEGE, KANKAVLI.

Respected Sir,

I undersigned, hereby declare that the project on “**Housing Society Management System**” is developed under the guidance of our lecturer **Mr. V.V.Duble**.

The conclusion in this report is based on the data, which is collected by me. I am declaring that this is my original work. I have not copied any materials, which are useful to my work, or other reports that are submitted to the “**KANKAVLI COLLEGE, KANKAVLI.**” this year.

I do undersign that if my work is found to be copied, and then I am liable to punishment as per the university rule.

DATE : 15/03/2025

PLACE: KANKAVLI.

(Gaurav Umesh Malankar)

Developed By- Gaurav Umesh Malankar

S. P. Mandal's

KANKAVLI COLLEGE KANKAVLI

(NAAC Re-Accreditation A Grade)



DEPARTMENT OF COMPUTER SCIENCE CERTIFICATE

*This is to certify that **Malankar Gaurav Umesh** have satisfactorily carried out her project work entitled. **“Housing Society Management System”**. As per the syllabus prescribed for T. Y. B.Sc. (Computer Science) of **Mumbai University, Mumbai**.*

It is also certifying that this is his own work completed during academic year 2024–2025. The work done is satisfactory and is presented as per the specifications.

PROJECT GUIDE

EXTERNAL EXAMINER

HEAD OF DEPARTMENT

PRINCIPAL

DATE: 15/03/2025

PLACE: KANKAVLI

Developed By- Gaurav Umesh Malankar

Certificate of Approval

This is certify that the project titled “Housing Society Management System**” is bonafide record of project work done by **Gaurav Umesh Malankar**.**

Seat no:

**This project is approved for the degree of
T.Y.B.sc (computer science) of
Mumbai University, Mumbai.**

Examiners:

1-----

Acknowledgement

My Web project “**Housing Society management System**” was a very rewarding experience. It was good experience to work on project updated and online database in a real life situation. The knowledge and experience gained during the project will help me immensely in days to come.

It is my prime duty to offer my sincere gratitude to University Of Mumbai to include the project work in the syllabus of Third Year Bachelor’s Degree so as to develop interest about research work among the students like us.

I have achieved satisfactory completion of my project only because of his continuously increasing despite all the practical difficulties we faced various phases of our project.

I would first of all like to thank for my project guide **Prof.Mr.V.V.Duble** for his kind and whole hearted guidance and inspiration as well as timely help for developing our project.

I wish to express my sincere thanks to **Prof.Mr.A.P.Satose** Sir, Head of the Department of Computer Science for giving me the opportunity to complete the project work by providing facilities in the department and providing valuable guidance to complete the task.

I am greatly by Science who provided valuable guidelines and conceptual guidance throughout the project work also helped out in clearing concepts about the project.

I also grateful to Principle Mr.Yuvraj Mahalinge sir, Principal of Kankavli College, Kankavli for providing all necessary facilities of laboratory and library at Kankavli College, Kankavli.

Last but not the least my special thanks to my parents, my friends and all those people who have encouraged me, helped me to complete this course successfully in time.

PREFACE

This project is my maiden effort to prepare the Computerization Of “**Housing Society management System**”. This project has been designed under **Windows 11** Professional Operating system at department of Computer Science, Kankavli College, and Kankavli for the “**Housing Society management System**” which would be more efficient and at faster rate. This report present detailed description of my Project.

Phase Completion Table

No	Task Performed	Proposed Date		Complete Date	Remark
01	Analysis Phase				01
	1.System Analysis	01/12/2024	03/12/2024	03/12/2024	
	2.Study Of Current System	04/12/2024	06/12/2024	06/12/2024	
	3.Documentation Current System	07/12/2024	10/12/2024	10/12/2024	
	4.ER,Class,Usecase Diagram	11/12/2024	13/12/2024	13/12/2024	
	5. Deployment,Activity Daigram	14/12/2024	16/12/2024	16/12/2024	
	6. System Requirements	17/12/2024	19/12/2024	19/12/2024	
02	Design Phase				02
	1.System Design	20/12/2024	23/12/2024	23/12/2024	
	2.Database Design	24/12/2024	28/12/2024	28/12/2024	
	3.Form Design	29/12/2024	02/01/2025	02/01/2025	
	4.List & Described Class Implementation	03/01/2025	06/01/2025	06/01/2025	
	5.Report Design	07/01/2025	09/01/2025	09/01/2025	
03	Coding Phase				03
	1.Coding	10/01/2025	14/01/2025	14/01/2025	
	2.Construct Database	15/01/2025	19/01/2025	19/01/2025	
	3.Construct Screen Layout	20/01/2025	24/01/2025	24/01/2025	
	4.Construct Report	25/01/2025	28/01/2025	28/01/2025	
04	Testing Phase				04
	1.Testing Phase	29/02/2025	04/02/2025	04/02/2025	
	2.Design & Plane Test Data	05/02/2025	06/02/2025	06/02/2025	
	3.Conduct Unit Testing	07/02/2025	09/02/2025	09/02/2025	
	4.Conduct Integrity Testing	10/01/2025	12/02/2025	12/02/2025	
	5.Conduct Test Data & Output	13/02/2025	15/02/2025	15/02/2025	
05	Implementation Phase				05
	1.Implementation	06/02/2025	18/02/2025	18/02/2025	
	2.Install Test Version System	19/02/2025	19/02/2025	19/02/2025	
	3.Conduct System Testing	20/02/2025	21/02/2025	21/02/2025	
	4.Collect Feedback From User	22/02/2025	24/02/2025	24/02/2025	
	5.Developed Final System	25/02/2025	27/02/2025	27/02/2025	

Mr.V.V.Duble
(Project Guide)

Mr.A.P.Satose
(Co-Ordinator)

Developed By- Gaurav Umesh Malankar

Index

SR. NO.	CHAPTER NO.	TITLE	PAGE NO.
1.		PROBLEM DOMAIN ANALYSIS	
	A.	Introduction	11
	B.	Organization Profile	12
	C.	Existing System	13
	D.	Need Of Computerization	15
	E.	Fact Finding Technique	16
	F.	Feasibility Study	18
	G.	System Requirement	19
	H.	Technical Analysis	20
2.		SOFTWARE SPECIFICATION	
	A.	Proposed System	22
	B.	Limitation Of Present System	24
	C.	Gantt Chart	27
	D.	Event Table	28

3.		ANALYSIS	
	A.	ER Diagram	31
	B.	Use case Diagram	32
	C.	Activity Diagram	33
	D.	Deployment Diagram	34
	E.	Class Diagram	35
		DESIGN	
4.	A.	Table Design	37
	B.	Screen Output	39
	C.	Reports	46
	D.	Coding	49
5.		SYSTEM IMPLEMENTATION	64
6.		BIBLIOGRAPHY	67



CHAPTER 1

PROBLEM DOMAIN ANALYSIS

INTRODUCTION

Welcome to Society.com - Your Complete Society Management Solution

Managing a housing society can be complex, but **Society.com** makes it effortless! Our **Society Management System** is designed to streamline operations, enhance communication, and ensure transparency in your residential community.

With an intuitive and user-friendly interface, **Society.com** provides essential tools to manage members, committees, elections, maintenance, meetings, and more. Whether you're a society administrator or a resident, our platform simplifies day-to-day tasks and fosters a well-organized living environment.

Key Features:

- **Member & Committee Management** – Maintain comprehensive records of residents and governing bodies.
- **Election & Meeting Scheduling** – Plan, organize, and track elections and monthly meetings.
- **Maintenance & Financial Management** – Ensure timely payments, track fines, and manage society expenses.
- **Neighborhood & Announcements** – Stay informed about events, updates, and community happenings.

With **Society.com**, managing your society has never been easier. Experience seamless operations and better community living today!

Organization Profile

Name of Organization: Kanakavli College Kankavli

Address: A/P-Jalkewadi,Tal-Kankavli.

Dist: Sindhudurg

Pincode: 416 602

Contact No: 9604449928

Existing System

Many housing societies currently rely on **manual or outdated management systems**, leading to several challenges that affect efficiency, communication, and transparency. The limitations of the existing systems include:

1. Time-Consuming and Inefficient Processes:

- Traditional management relies on physical records or scattered digital solutions, making data retrieval slow and cumbersome.
- Manual handling of member records, maintenance charges, and meeting schedules increases the risk of errors and delays.

2. Lack of Centralized Communication:

- Important announcements, event updates, and maintenance notifications are often communicated via word of mouth, notice boards, or informal messaging apps.
- This leads to miscommunication, missed updates, and confusion among residents.

3. Limited Financial Transparency:

- Existing systems often lack a clear and transparent way to track society funds, maintenance fees, and fines.
- Manual accounting increases the chances of mismanagement or disputes among residents.

4. Difficulty in Managing Elections & Meetings:

- Committee elections and meetings are often unorganized, with no systematic way to schedule, notify, or record decisions.
- Residents face challenges in tracking leadership changes and key meeting resolutions.

5. Security & Privacy Concerns:

- Sensitive information related to residents and financial transactions is often stored in unsecured spreadsheets or physical files, making it vulnerable to unauthorized access.

6. Lack of Accessibility & 24/7 Availability:

- Residents cannot access society-related information anytime, as traditional systems rely on manual intervention.
- There is no single digital platform that provides real-time access to updates, payments, or community interactions.

How Society.com Overcomes These Challenges

- **Centralized & Automated System:** A single, **digital** platform to manage all society operations efficiently.
- **Seamless Communication:** Integrated announcement and notification features ensure residents stay informed.
- **Transparent Financial Management:** Automated tracking of maintenance payments, fines, and expenses eliminates confusion.
- **Organized Elections & Meetings:** Digital tools to schedule elections, notify residents, and maintain meeting records.
- **Enhanced Security & Data Privacy:** Robust encryption safeguards resident data from unauthorized access.
- **24/7 Access & Convenience:** Anytime access to society-related information, payments, and notifications.

With **Society.com**, housing societies can eliminate inefficiencies and create a **well managed, transparent, and secure** community for all residents.

Need Of Computerization

Computerization is essential for modern society management, ensuring efficiency, security, and smooth operations. Shifting from manual methods to a digital platform enhances management, transparency, and resident satisfaction.

Key Benefits:

1. **Efficient Operations** – Automates tasks like member management, maintenance collection, and event scheduling, reducing errors and manual workload.
2. **Secure Data Storage** – Stores resident details, financial records, and meeting logs in a secure database, eliminating risks of data loss or unauthorized access.
3. **Automated Financial Management** – Enables online payments, fine tracking, and financial reporting, reducing dependency on manual accounting.
4. **24/7 Accessibility & Real-Time Updates** – Residents and admins can access society-related information anytime, ensuring better communication and timely updates.
5. **Paperless & Eco-Friendly** – Digitized records reduce paperwork, making management faster and more efficient.
6. **Improved Communication & Transparency** – Centralized notifications keep residents informed, while digital records enhance financial and operational transparency.

By embracing computerization, Society.com simplifies society management, making it secure, efficient, and user-friendly for a better living experience.

Fact Finding Techniques

To develop an efficient **Society Management System**, various fact-finding techniques are employed to gather essential insights from stakeholders, ensuring the system meets community needs effectively. The following techniques are utilized:

1. **Interviews** – Conducted with society members, committee members, and administrators to understand key challenges and requirements.
 - **Structured Interviews:** Predefined questions to gather an overview of management needs, financial tracking, and communication gaps.
 - **Unstructured Interviews:** Open-ended discussions to explore resident expectations, governance issues, and system improvements in detail.
2. **Questionnaires** – Distributed to residents and society officials to collect feedback on current management practices and desired system features.
 - **Open-Ended Questions:** Gather opinions on issues like payment delays, maintenance tracking, and communication inefficiencies.
 - **Closed-Ended Questions:** Structured queries with response options for easy analysis of user preferences and system requirements.
3. **Observation** – Direct observation of society operations, such as how maintenance requests are handled, how financial records are maintained, and how meetings are conducted, helps identify inefficiencies and areas for automation.
4. **Focus Groups** – A selected group of residents, committee members, and security personnel discuss their needs and expectations for the new system. This technique ensures a collaborative approach, gathering diverse perspectives for better system design.
5. **Document Analysis** – Reviewing society records, financial statements, maintenance logs, and communication methods to understand existing workflows, compliance requirements, and areas for digital transformation.

Key Questions for System Development:

1. What challenges does the current society management process face?
2. How are maintenance requests, payments, and fines currently handled?
3. How do residents communicate with committee members and administrators?
4. What security measures are needed to protect resident data and financial records?
5. What are the most common complaints from residents about society management?
6. How does the society schedule and manage meetings and elections?
7. What payment options do residents prefer for maintenance and other fees?
8. How can the system improve neighborhood engagement and event management?
9. What level of automation and reporting is needed for administrators?
10. What features would make Society.com more user-friendly and efficient?

By employing these fact-finding techniques, Society.com ensures a well informed, effective, and user-centric society management system that meets the needs of all stakeholders.

Feasibility Study

A feasibility study assesses the practicality and success of implementing **Society.com**, ensuring informed decision-making and smooth system deployment.

1. Risk Management

- **Technology Risks:** Ensure seamless integration with financial tracking, maintenance logs, and resident records while maintaining data security.
- **User Adoption:** Some users may resist digital adoption. A user-friendly interface and training will ease the transition.

2. Economic Feasibility

- **Cost-Benefit Analysis:**
 - **Initial Costs:** Development, licensing, and training.
 - **Operational Costs:** Maintenance, cloud hosting, and updates.
- **Benefits:**
 - **Time Savings:** Automates fee collection, announcements, and complaint handling.
 - **Resource Optimization:** Reduces manual paperwork and enhances efficiency.

4. Technical Feasibility

- **System Compatibility:** Must integrate with payment gateways, databases, and notifications.
- **Maintenance & Scalability:** The system should support growth and allow regular updates.

5. Resource Feasibility

- **Human Resources:** Trained staff for system operations and support.
- **Infrastructure:** Reliable server and cloud storage for secure data management.

6. Environmental Feasibility

- **Paperless Operations:** Reduce reliance on manual records and printed notices by digitizing communication and reports.
- **Energy Efficiency:** Optimize server infrastructure to minimize energy consumption and promote eco-friendly practices.

System Requirements

Software:

- **Front End:** HTML, CSS, Js, Bootstrap
- **Server Side:** PHP
- **Back End:** MySQL
- **Operating System:** Windows 10 or 11

Hardware:

- **Processor:** Intel Core i5
- **Memory:** 8 GB RAM
- **Storage Device:** SSD 512 GB

Technical Specification

1. Enhanced Accessibility

- **User-Friendly Interface:** Society.com offers an intuitive and easy-to-use interface, ensuring seamless interaction for society members, administrators, and management committees, regardless of their technical proficiency.
- **Seamless Navigation:** The system is structured for quick access to member records, maintenance schedules, and payment history, enhancing the overall user experience.

2. 24/7 Availability

- **Continuous Operation:** The platform is accessible 24/7, enabling users to pay maintenance fees, raise complaints, and access community updates at any time.
- **Remote Access:** Residents and administrators can use the system from any device desktop to manage society-related tasks conveniently.

3. Efficient Information Retrieval

- **Smart Search & Filters:** Users can quickly retrieve member details, payment records, and announcements using advanced search and filtering features.

4. Technology Stack

- **Database Management:** The system utilizes MySQL for secure and efficient storage of resident records, financial transactions, and maintenance logs.
- **Web-Based System:** Built with PHP for backend, and Bootstrap for frontend, ensuring a responsive and dynamic user experience.

5. Security & Data Protection

- **Role-Based Access:** Different levels of user access (Admin, Committee, Resident) ensure data privacy and restricted access to sensitive information.
- **Data Encryption:** All sensitive user information, including payments and personal details, is encrypted to prevent unauthorized access.

6. Scalability & Reliability

- **Future-Proof System:** The system is scalable to accommodate increasing users and additional features as societies expand.
- **Regular Updates & Maintenance:** The architecture allows easy updates for adding new functionalities and improving security measures.



CHAPTER 2

SOFTWARE **SPECIFICATIONS**

Proposed System

The proposed Society Management System (Society.com) is a web-based application designed to streamline and automate society operations, including resident management, maintenance tracking, and financial transactions. The system ensures efficient data handling, enhanced security, and improved user accessibility for residents and administrators.

System Overview

The new system is fully computerized, enabling seamless data entry, retrieval, and management of society-related activities. It maintains comprehensive records for residents, payments, complaints, and notices, ensuring transparency and accessibility.

Technology Stack

- **Frontend:** HTML, CSS, JavaScript, Bootstrap
- **Server-Side:** PHP
- **Database:** MySQL

System Components

1. Frontend Development (HTML, CSS, JavaScript, Bootstrap)

- **User Interface:** The frontend is developed using HTML (structure), CSS (styling), JavaScript (interactivity), and Bootstrap (responsiveness) to create an intuitive and engaging user experience.
- **Accessibility:** The system provides easy navigation, allowing users to access payment records, resident details, complaint tracking, and announcements efficiently.

2. Backend Development (PHP)

- **Server-Side Logic:** PHP is used to handle business logic, database interactions, and user authentication securely.
- **Object-Oriented Approach:** Ensures modular development, making the system scalable and maintainable.

3. Database Management (MySQL)

- **Data Storage:** MySQL is utilized to store resident details, maintenance logs, payments, and complaints securely.
- **Data Integrity & Security:** Strong security mechanisms, including role-based access control and encrypted transactions, protect sensitive society data.

Developed By- Gaurav Umesh Malankar

Why PHP is Used for Backend Development?

- **Open-Source & Cost-Effective:** Reduces development costs with extensive community support.
- **Robust & Scalable:** Ensures secure data handling and can accommodate growing user demands.
- **Efficient Database Interaction:** Works seamlessly with MySQL for fast and reliable queries.

Why MySQL is Used for Database Management?

- **Reliable & Stable:** Ensures consistent data availability with minimal downtime.
- **Optimized Performance:** Provides fast query execution and efficient data handling.
- **Scalability:** Capable of managing large volumes of data without affecting system performance.
- **Security Features:** Implements data encryption, user authentication, and access control for protection.

Advantages of the Proposed System:

☒ **Efficient Record Management**

- Enables seamless storage and retrieval of resident details, maintenance logs, payment records, and complaints, ensuring efficient society operations.

☒ **Enhanced Accuracy**

- Reduces manual errors by ensuring precise data entry, retrieval, and modifications, improving financial and operational transparency.

☒ **Improved Security**

- Implements role-based access control and encryption, preventing unauthorized access and data breaches while protecting sensitive society information.

☒ **Time-Saving Operations**

- Automates maintenance fee collection, complaint handling, and announcement distribution, minimizing manual workload and speeding up administrative tasks.

☒ **User-Friendly Interface**

- Provides an intuitive and accessible interface, allowing both residents and administrators to navigate the system easily with minimal training.

☒ **Centralized Data Storage**

- MySQL ensures structured and centralized data management, reducing the risk of data duplication and inconsistency.

Developed By- Gaurav Umesh Malankar

Limitaitons of the Present System

⚠ Data Security Risks

- Despite robust security measures, there remains a potential risk of cyber threats, hacking, or data breaches, which require continuous monitoring and updates.

⚠ Limited Customization

- The system provides essential functionalities but may lack flexibility for societies with unique or complex requirements, requiring additional development for custom features.

⚠ Scalability Challenges

- As the number of residents, transactions, and records grows, performance issues may arise if proper scaling and infrastructure upgrades are not implemented.

⚠ Regulatory Compliance

- The system must comply with local housing and financial regulations, requiring periodic updates and audits to ensure compliance.

⚠ User Adoption Resistance

- Some residents and staff may be reluctant to transition from manual record-keeping to a digital system, leading to slow adoption.

⚠ Learning Curve

- Although designed for ease of use, some users, particularly those unfamiliar with web applications, may require training to fully utilize the system.

Program Function and Explanation

The Society Management System (Society.com) is designed to manage various aspects of a residential society efficiently. It includes modules that streamline membership management, committee administration, event planning, maintenance tracking, and financial transactions. Below is a breakdown of its key program functions:

1. Home

✂ **Functionality:** Acts as the landing page for users to navigate different sections of the system.

◇ **Key Features:**

- Provides an overview of society activities.
- Displays recent announcements, meetings, and pending tasks.

2. Member Master

✂ **Functionality:** Manages the records of society members, including their personal details, residency status, and contributions.

◇ **Key Features:**

- **Add Member:** Allows the addition of new residents.
- **Edit Member:** Enables modification of member details.
- **Delete Member:** Removes members who have moved out.
- **View Member List:** Displays all registered residents.

3. Committee Master

✂ **Functionality:** Maintains records of committee members responsible for society governance.

◇ **Key Features:**

- Assigns roles to president, secretary, treasurer, and other positions.
- Allows updates to committee tenure and responsibilities.
- Facilitates decision-making and task assignments.

4. Election Details

✂ **Functionality:** Manages election processes for selecting new society committee members.

◇ **Key Features:**

- Records nominations and candidate details.
- Schedules voting dates.
- Provides a history of past elections.

5. Maintenance Management

- ✚ **Functionality:** Tracks society maintenance fees, due payments, and expenses.
 - ◇ **Key Features:**
 - Generates monthly maintenance bills for residents.
 - Tracks pending and completed payments.
 - Maintains a record of maintenance expenses (e.g., security, repairs).
-

6. Monthly Meeting Management

- ✚ **Functionality:** Organizes monthly committee and general body meetings.
 - ◇ **Key Features:**
 - Schedules upcoming meetings with date, time, and agenda.
 - Maintains minutes of meetings and decisions made.
 - Sends reminders to attendees.
-

7. Fine Management

- ✚ **Functionality:** Manages fines imposed on residents for violations (e.g., late maintenance payment, parking violations).
 - ◇ **Key Features:**
 - Tracks fine details, reasons, and amounts.
 - Allows online fine payments.
 - Sends reminders for unpaid fines.
-

8. Neighborhood Management

- ✚ **Functionality:** Manages details about nearby facilities and emergency contacts.
 - ◇ **Key Features:**
 - Stores contacts for security, hospitals, fire departments, etc.
 - Displays nearby grocery stores, schools, and essential services.
-

9. Announcements

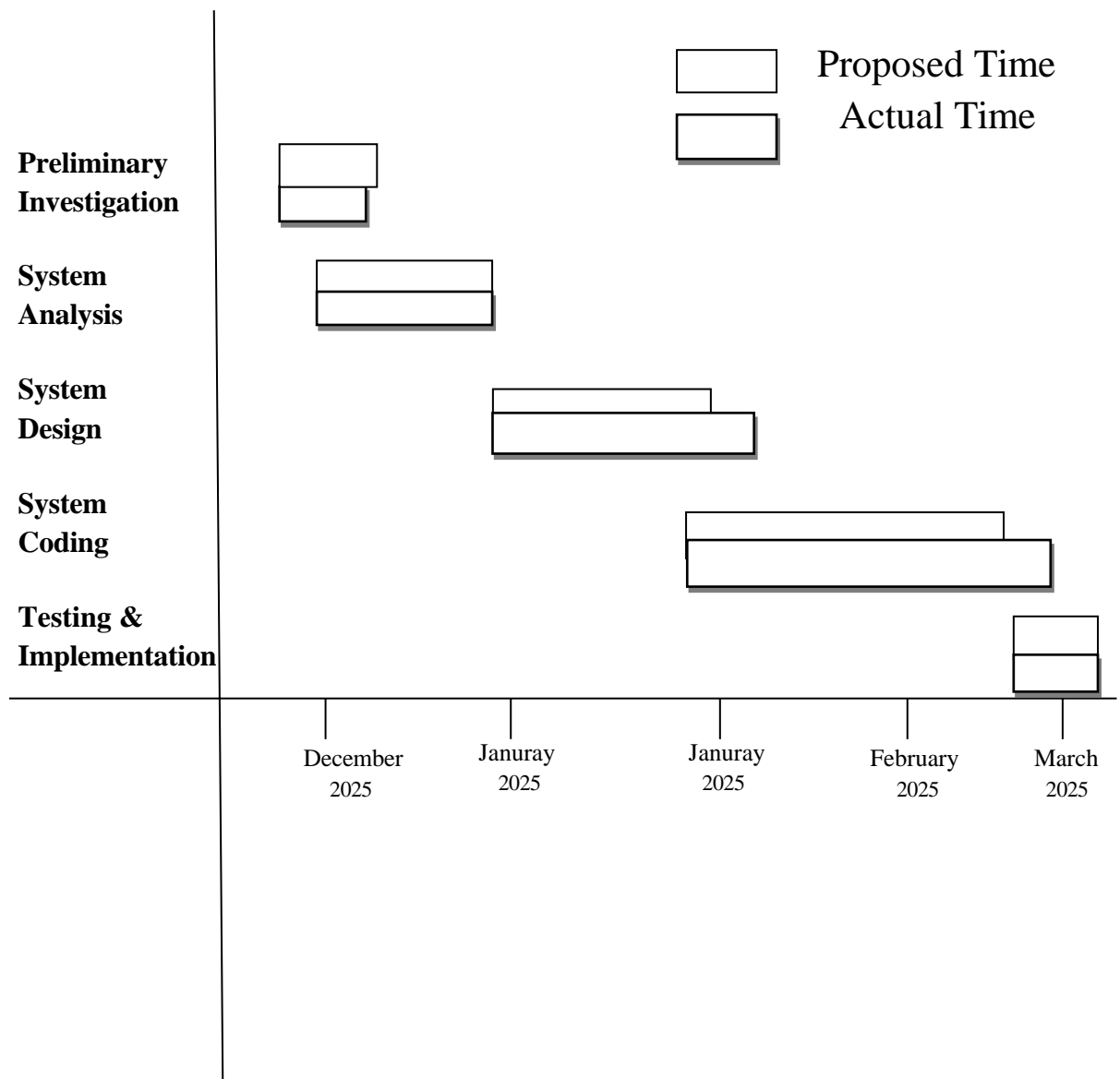
- ✚ **Functionality:** Enables administrators to post notices and announcements for residents.
 - ◇ **Key Features:**
 - Displays important updates, such as water supply schedules, maintenance work, and festivals.
 - Allows residents to view past announcements.
-

10. Event Management

- ✚ **Functionality:** Organizes society events and festivals.
- ◇ **Key Features:**
 - Schedules cultural programs, celebrations, and community meetings.
 - Allows residents to RSVP for events.
 - Sends event reminders.

Gantt Chart

This chart displays the expected date & originally completed date i.e. actual completion of my project.



Event Table

Event Table for Society Management System

Event Name	Trigger	Source	Activity	Response	Destination
Sign Up	User submits registration form	User	Validate input	User Registration Successful	User
Member Login	User enters credentials and clicks "Login"	User	Validate credentials and initiate user session	Redirect to dashboard	User
Admin Login	Admin enters credentials and clicks "Login"	Admin	Validate admin credentials and initiate session	Redirect to admin dashboard	Admin
Add Member	Administrator clicks "Add Member" button	Admin	Save member details in MemberMaster	Member added successfully	Server
Edit Member	Administrator clicks "Edit" on a selected member	Admin	Load current member data and save changes	Member updated successfully	Server
Delete Member	Administrator selects a member and clicks "Delete"	Admin	Confirm deletion and remove from MemberMaster	Member deleted successfully	Server
Schedule Election	Administrator sets election details	Admin	Save election details in ElectionMaster	Election scheduled successfully	Server
Submit Maintenance Fee	User makes a maintenance payment	User	Validate payment and update MaintenanceRecords	Payment confirmed	User
View Maintenance Records	User clicks "View Records"	User	Query MaintenanceRecords and display history	Displayed past payments	User
Organize Event	Administrator creates a new event	Admin	Save event details in EventMaster	Event scheduled successfully	Server
Announcement Posting	Administrator posts a new announcement	Admin	Save announcement in AnnouncementMaster	Announcement published	Server
View Announcements	User views the latest announcements	User	Query AnnouncementMaster and display results	Displayed current announcements	User

Developed By- Gaurav Umesh Malankar

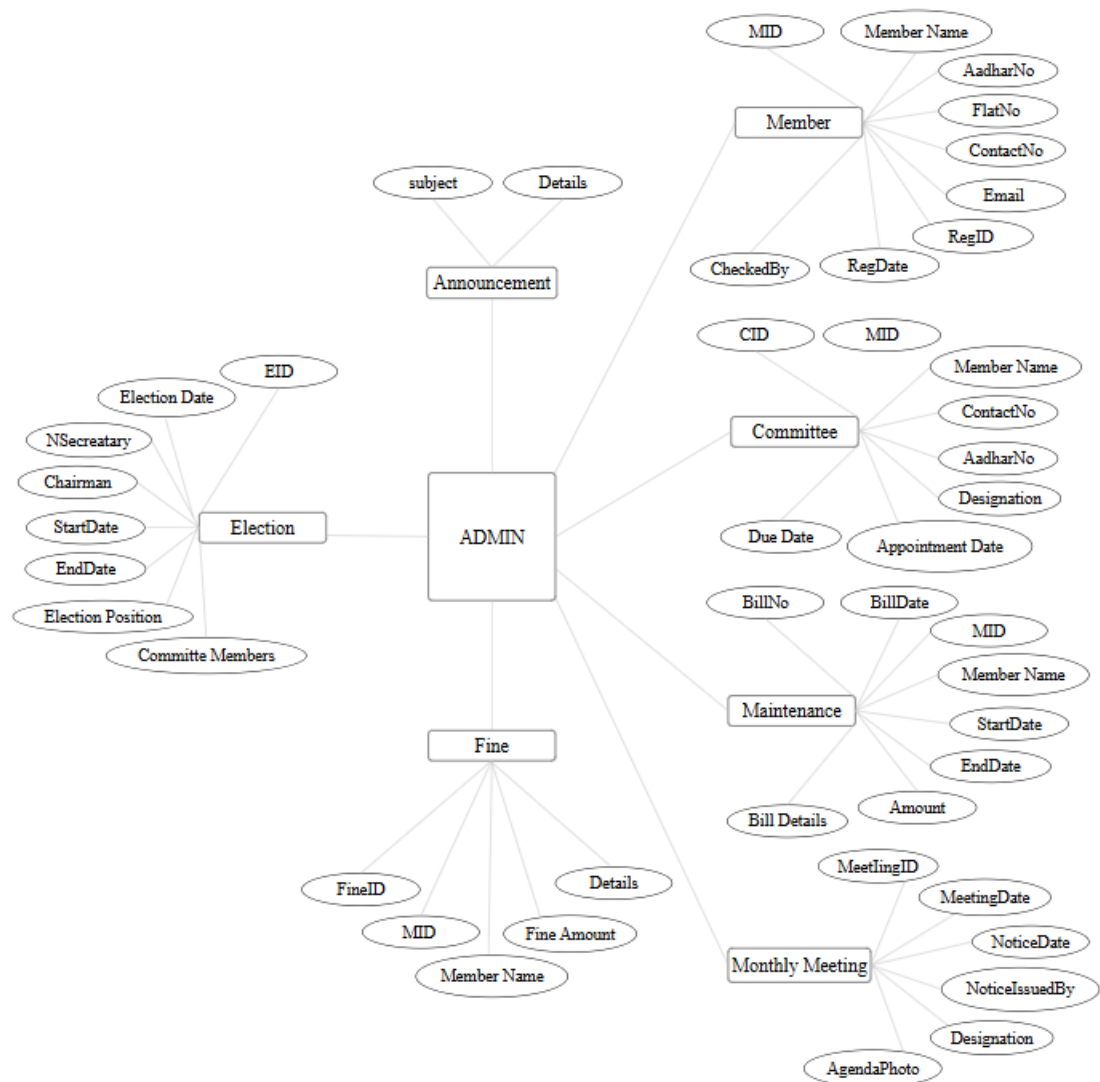
Submit Fine Payment	User pays fine for a violation	User	Validate payment and update FineRecords	Payment confirmed	User <input type="text"/>
View Fine Details	User checks fine history	User	Query FineRecords and display results	Displayed fine details	User
Emergency Contact Lookup	User searches for emergency contacts	User	Query NeighborhoodMaster and display contacts	Displayed relevant emergency contacts	User
Submit Enquiry	User submits an enquiry form	User	Save enquiry details in Enquiry	Confirmation sent to user	Server
Check Enquiry Status	User checks status of submitted enquiry	User	Query EnquiryMaster and display status	Displayed current status	User
Monthly Meeting Schedule	Administrator sets a monthly meeting schedule	Admin	Save meeting details in MeetingMaster	Meeting scheduled successfully	Server
Generate Reports	Administrator clicks "Generate Report" button	Admin	Compile data and create report document	Report document ready for download	Admin



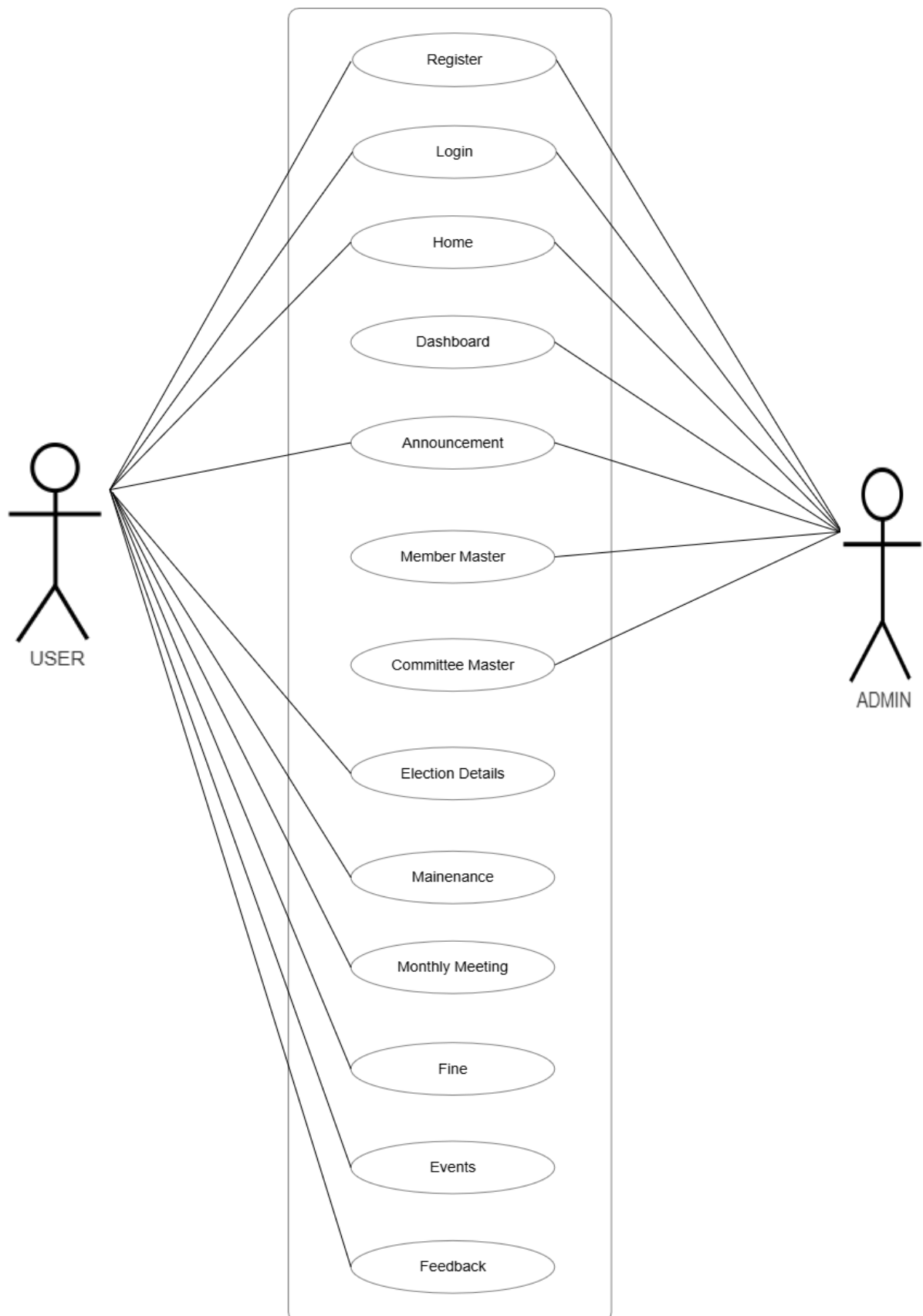
CHAPTER 3

ANALYSIS

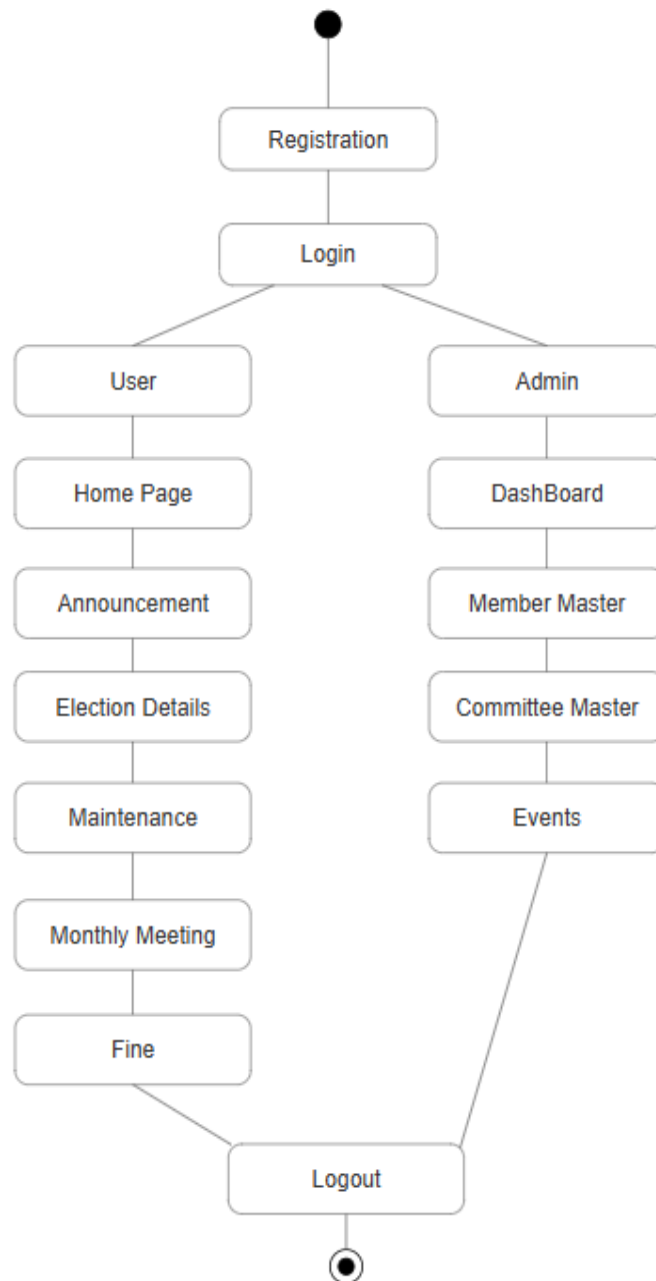
ER Diagram



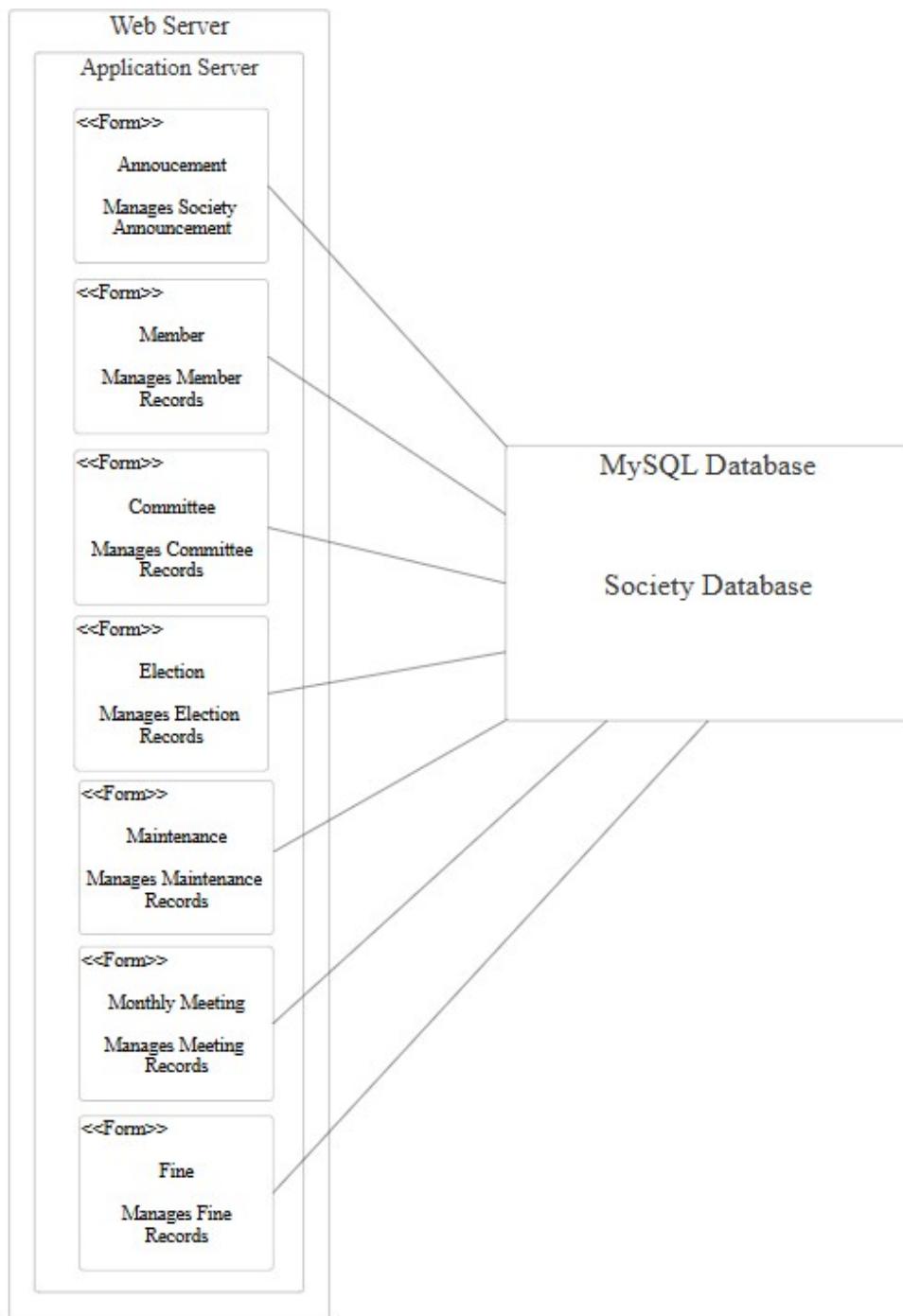
Use Case Diagram



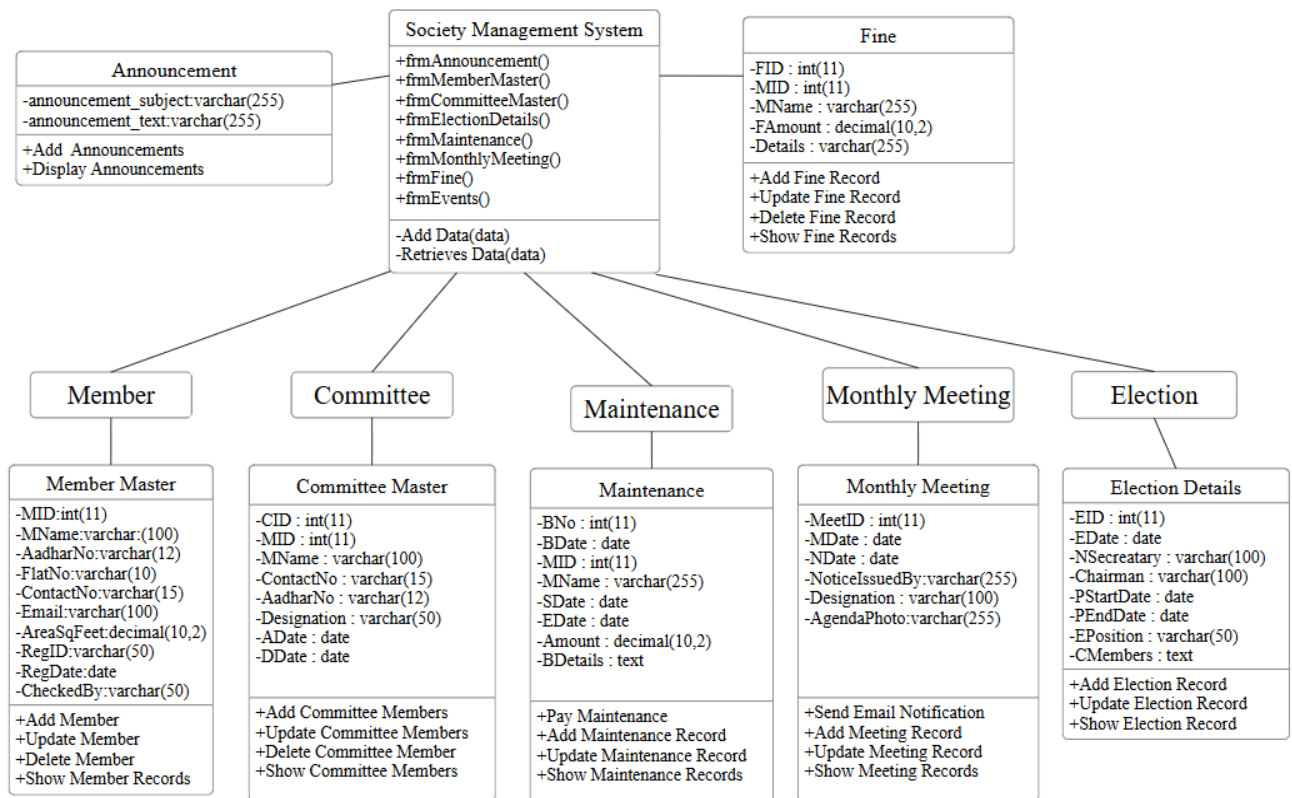
Activity Diagram



Deployment Diagram



Class Diagram





CHAPTER 4

DESIGN

Table design

1. User:

```
CREATE TABLE `users` (  
  `id` int(11) NOT NULL,  
  `user_type` enum('admin','user') NOT NULL,  
  `username` varchar(50) NOT NULL,  
  `email` varchar(100) NOT NULL,  
  `password` varchar(255) NOT NULL,  
  `created_at` timestamp NOT NULL DEFAULT current_timestamp()  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;
```

2. MemberMaster:

```
CREATE TABLE `membermaster` (  
  `MID` int(11) NOT NULL,  
  `MName` varchar(100) NOT NULL,  
  `AadharNo` varchar(12) DEFAULT NULL,  
  `FlatNo` varchar(10) DEFAULT NULL,  
  `ContactNo` varchar(15) DEFAULT NULL,  
  `Email` varchar(100) NOT NULL,  
  `AreaSqFeet` decimal(10,2) DEFAULT NULL,  
  `RegID` varchar(50) DEFAULT NULL,  
  `RegDate` date DEFAULT NULL,  
  `CheckedBy` varchar(50) DEFAULT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;
```

3. CommitteeMaster:

```
CREATE TABLE `committeemaster` (  
  `CID` int(11) NOT NULL,  
  `MID` int(11) NOT NULL,  
  `MName` varchar(100) NOT NULL,  
  `ContactNo` varchar(15) DEFAULT NULL,  
  `AadharNo` varchar(12) DEFAULT NULL,  
  `Designation` varchar(50) DEFAULT NULL,  
  `ADate` date DEFAULT NULL,  
  `DDate` date DEFAULT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;
```

4. ElectionDetails:

```
CREATE TABLE `electiondetails` (  
  `EID` int(11) NOT NULL,  
  `EDate` date NOT NULL,  
  `NSecretary` varchar(100) NOT NULL,  
  `Chairman` varchar(100) DEFAULT NULL,  
  `PStartDate` date DEFAULT NULL,  
  `PEndDate` date DEFAULT NULL,  
  `EPosition` varchar(50) NOT NULL,  
  `CMembers` text DEFAULT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;
```

5. Maintenance:

```
CREATE TABLE `maintenance` (  
  `BNo` int(11) NOT NULL,  
  `BDate` date NOT NULL,  
  `MID` int(11) NOT NULL,  
  `MName` varchar(255) NOT NULL,  
  `SDate` date NOT NULL,  
  `EDate` date NOT NULL,  
  `Amount` decimal(10,2) NOT NULL,  
  `BDetails` text DEFAULT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;
```

5.MonthlyMeeting:

```
CREATE TABLE `monthlymeeting` (  
  `MeetID` int(11) NOT NULL,  
  `MDate` date NOT NULL,  
  `NDate` date NOT NULL,  
  `NoticeIssuedBy` varchar(255) NOT NULL,  
  `Designation` varchar(100) NOT NULL,  
  `AgendaPhotoPath` varchar(255) DEFAULT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;
```

6.Fine:

```
CREATE TABLE `fine` (  
  `FID` int(11) NOT NULL,  
  `MID` int(11) NOT NULL,  
  `MName` varchar(255) NOT NULL,  
  `FAmount` decimal(10,2) NOT NULL,  
  `Details` varchar(255) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;
```

Screen Output

1. Registration:

REGISTER

User Type

Admin

Username

admin

Email

admin@gmail.com

Password

.....

Confirm Password

.....

Next

Already have an account? Login

2. Login:

LOGIN

UserType

Admin

Username

admin

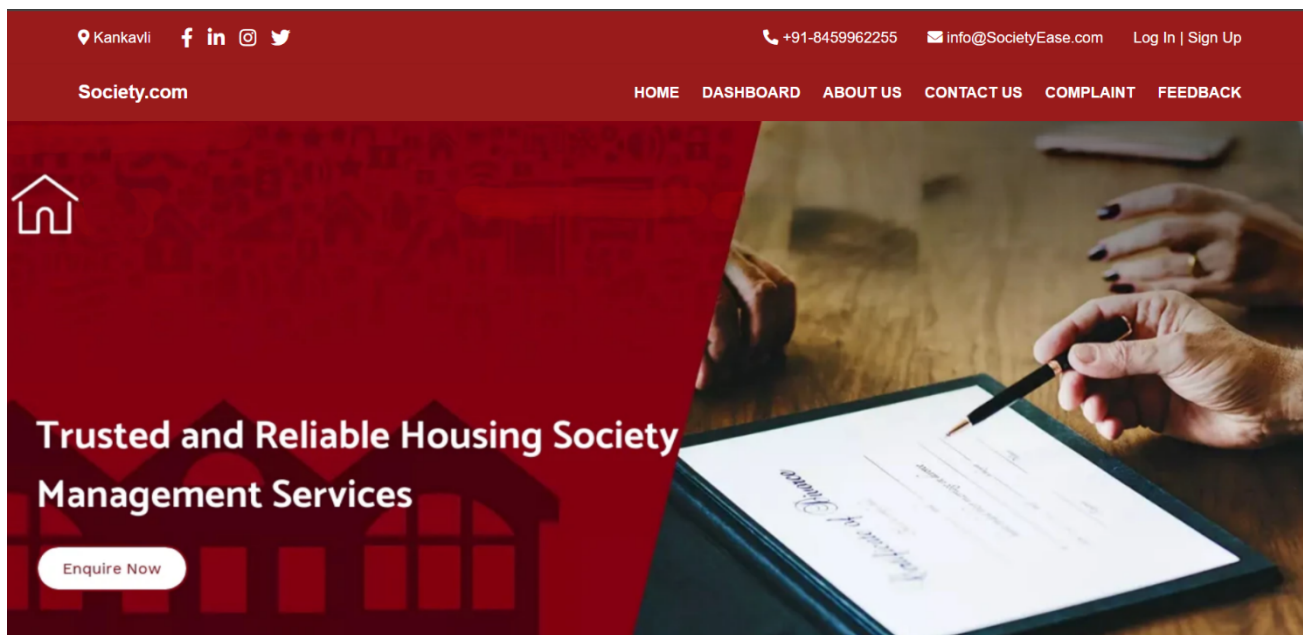
Password

.....

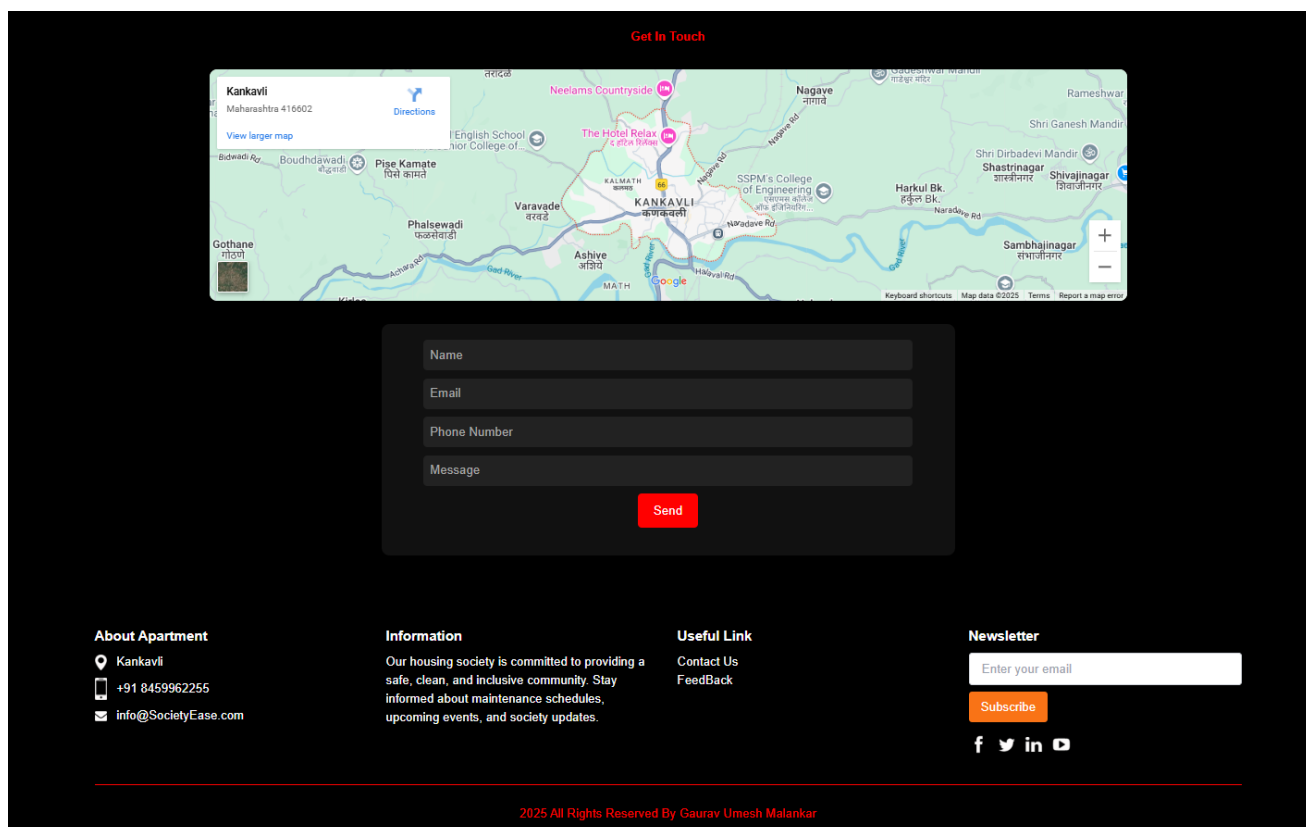
GO

Don't have an account? Register

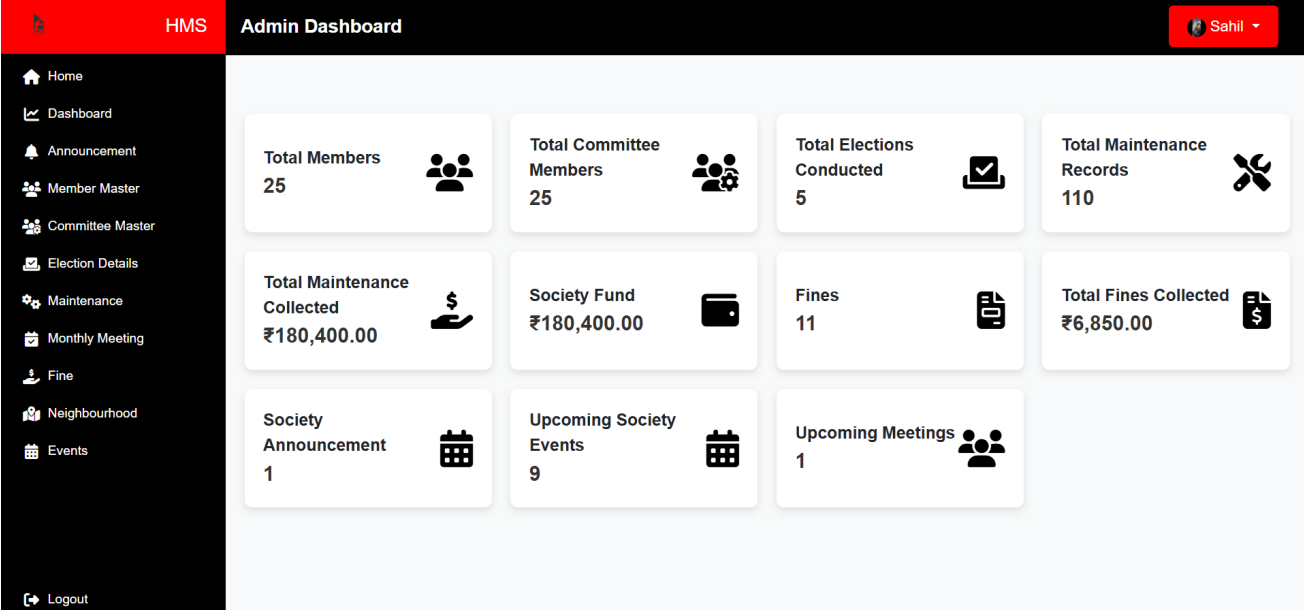
3. Homepage:



4. Contact Us:



5. Admin Dashboard:



The Admin Dashboard provides a comprehensive overview of the housing society's management data. It features a sidebar with navigation options and a main content area with various data cards.

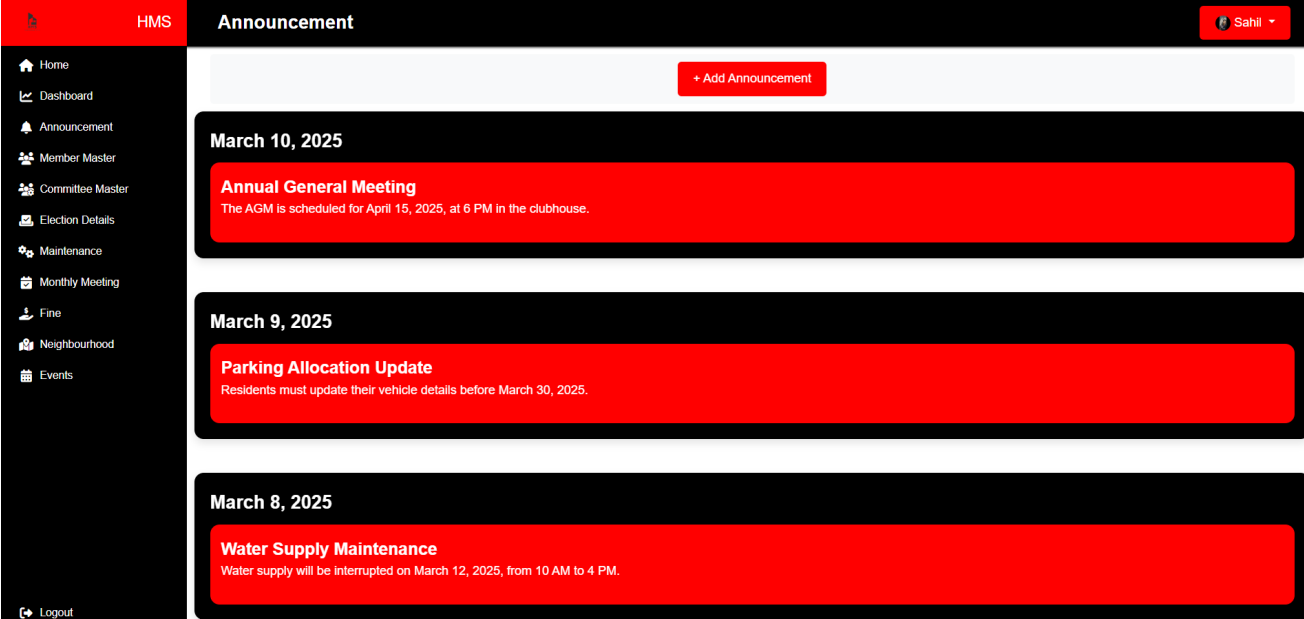
Navigation Menu:

- Home
- Dashboard
- Announcement
- Member Master
- Committee Master
- Election Details
- Maintenance
- Monthly Meeting
- Fine
- Neighbourhood
- Events
- Logout

Admin Dashboard Data:

Metric	Value
Total Members	25
Total Committee Members	25
Total Elections Conducted	5
Total Maintenance Records	110
Total Maintenance Collected	₹180,400.00
Society Fund	₹180,400.00
Fines	11
Total Fines Collected	₹6,850.00
Society Announcement	1
Upcoming Society Events	9
Upcoming Meetings	1

6. Annoucement:



The Announcement page displays a list of recent announcements. It includes a sidebar with navigation options and a main content area with a list of announcements.

Navigation Menu:

- Home
- Dashboard
- Announcement
- Member Master
- Committee Master
- Election Details
- Maintenance
- Monthly Meeting
- Fine
- Neighbourhood
- Events
- Logout

Announcements:

- March 10, 2025**
Annual General Meeting
 The AGM is scheduled for April 15, 2025, at 6 PM in the clubhouse.
- March 9, 2025**
Parking Allocation Update
 Residents must update their vehicle details before March 30, 2025.
- March 8, 2025**
Water Supply Maintenance
 Water supply will be interrupted on March 12, 2025, from 10 AM to 4 PM.

7. Member Master:

The screenshot shows the 'Member Master' form within the HMS application. The interface has a dark theme with a red sidebar on the left containing navigation links: Home, Dashboard, Announcement, Member Master, Committee Master, Election Details, Maintenance, Monthly Meeting, Fine, Neighbourhood, and Events. The top header is red with 'HMS' and 'Member Master' text, and a user profile 'Sahil' on the right. The form itself is a white card with the title 'Member Master'. It contains the following fields: Member ID (with a 'New' button and a 'Search' button), Member Name, Aadhar Number, Flat Number (a dropdown menu), Contact Number, Email Id, Area (Sq Feet), Registration ID, Registration Date (a date picker), and Checked By (a dropdown menu). At the bottom of the form are six buttons: Add, Update, Delete, Cancel, Show Data, and Report.

8. Committee Master:

The screenshot shows the 'Committee Master' form within the HMS application. The interface is consistent with the previous screenshot, featuring a dark theme, a red sidebar with navigation links, and a top header with 'HMS', 'Committee Master', and a user profile 'Sahil'. The form is a white card titled 'Committee Master'. It includes the following fields: Committee ID (with a 'New' button and a 'Search' button), Member ID (a dropdown menu), Member Name (a dropdown menu), Contact, Aadhaar No, Designation (a dropdown menu), Appointment Date (a date picker), and Due Date (a date picker). The bottom of the form features six buttons: Add, Update, Delete, Cancel, Show Data, and Report.

REPORTS

1. Member Master:



Society Management

Member Master Report

MID	Name	Aadhar No	Flat No	Contact No	Email ID	Area	Reg Date
1	Pranali Nevage	123456789012	101	9876543210	pranalinevage@gmail.com	1200.50	01-03-2020
2	Palav Narayan	234567890123	102	9876543211	palavnarayan@gmail.com	1300.75	14-02-2018
3	Vijay Tambe	345678901234	103	9876543212	vijaytambe@gmail.com	1100.25	08-06-2017
4	Anjali Parab	456789012345	104	9876543213	anjaliaparab@gmail.com	1250.00	16-04-2020
5	Jitendra Dubey	567890123456	201	9876543214	jitendradubey@gmail.com	1400.60	05-03-2024
6	Sunita Reddy	678901234567	202	9876543215	sunitareddy@gmail.com	1350.80	06-03-2024
7	Vikram Patel	789012345678	203	9876543216	vikrampatel@gmail.com	1280.45	07-03-2024
8	Lalit Nahar	890123456789	204	9876543217	lalitnahar@gmail.com	1500.90	20-09-2019
9	Sandeep Malhotra	901234567890	301	9876543218	sandeepmalhotra@gmail.c	1325.60	09-03-2024
10	Anita Joshi	012345678901	302	9876543219	anitajoshi@gmail.com	1450.75	17-08-2022
11	Kunal Deshmukh	112345678902	303	9876543220	kunaldeshmukh@gmail.co	1375.20	11-03-2024
12	Sonia Khanna	212345678903	304	9876543221	soniakhanna@gmail.com	1230.85	12-03-2024
13	Yashwant Rao	312345678904	401	9876543222	yashwantrao@gmail.com	1400.30	13-03-2024
14	Deepa Bhat	412345678905	402	9876543223	deepabhat@gmail.com	1330.10	14-03-2024
15	Tarun Mehta	512345678906	403	9876543224	tarunmehta@gmail.com	1200.50	15-03-2024

2. Committee Master:**Society Management****Committee Master Report**

CID	MID	Name	Contact	Aadhar No	Designation	A.Date	D.Date
1	3	Vijay Tambe	9876543212	345678901234	Chairman	01-01-2021	31-12-2025
2	2	Palav Narayan	9876543211	234567890123	Secretary	01-01-2021	31-12-2025
3	1	Pranali Nevage	9876543210	123456789012	Tresaury	01-01-2021	31-12-2025
4	8	Lalit Nahar	9876543217	890123456789	Manager	01-01-2022	31-12-2026
5	10	Anita Joshi	9876543219	012345678901	Supervisor	01-01-2023	31-12-2026
6	17	Arun Iyer	9876543226	712345678908	Member	01-06-2020	01-06-2028
7	5	Jitendra Dubey	9876543214	567890123456	Member	01-06-2020	01-06-2028
8	18	Monica Saxena	9876543227	812345678909	Member	01-06-2020	01-06-2028
9	6	Sunita Reddy	9876543215	678901234567	Member	01-06-2020	01-06-2028
10	19	Ramesh Chandra	9876543228	912345678910	Member	01-06-2020	01-06-2028
11	7	Vikram Patel	9876543216	789012345678	Member	01-06-2020	01-06-2028
12	20	Pooja Narang	9876543229	101234567891	Member	01-06-2020	01-06-2028
13	9	Sandeep Malhotra	9876543218	901234567890	Member	01-06-2020	01-06-2028
14	21	Vivek Bhardwaj	9876543230	102234567892	Member	01-06-2020	01-06-2028
15	11	Kunal Deshmukh	9876543220	112345678902	Member	01-06-2020	01-06-2028

3. Election Details:**Society Management****Election Details Report**

EID	Date	Notice By Sec.	Chairman	Start Date	End Date	Position	Members
1	01-06-2020	Palav Narayan	Vijay Tambe	01-07-2020	16-07-2020	Chairman	12
2	10-05-2021	Palav Narayan	Vijay Tambe	01-06-2021	15-06-2021	Secretary	15
3	15-04-2022	Palav Narayan	Vijay Tambe	01-05-2022	20-05-2022	Treasurer	18
4	20-03-2023	Palav Narayan	Pranali Nevage	01-04-2023	18-04-2023	Manager	22
5	25-02-2024	Palav Narayan	Pranali Nevage	01-03-2024	17-03-2024	Supervisor	24

4. Maintenance:**Society Management****Maintenance Report**

Bill No	Bill Date	Member ID	Member Name	Start Date	End Date	Amount	Bill Details
1	02-10-2024	1	Pranali Nevage	01-10-2024	31-10-2024	1640.00	October
2	04-10-2024	2	Palav Narayan	01-10-2024	31-10-2024	1640.00	October
3	06-10-2024	3	Vijay Tambe	01-10-2024	31-10-2024	1640.00	October
4	08-10-2024	4	Anjali Parab	01-10-2024	31-10-2024	1640.00	October
5	10-10-2024	5	Jitendra Dubey	01-10-2024	31-10-2024	1640.00	October
6	12-10-2024	6	Sunita Reddy	01-10-2024	31-10-2024	1640.00	October
7	14-10-2024	7	Vikram Patel	01-10-2024	31-10-2024	1640.00	October
8	16-10-2024	8	Lalit Nahar	01-10-2024	31-10-2024	1640.00	October
9	18-10-2024	9	Sandeep Malhotra	01-10-2024	31-10-2024	1640.00	October
10	20-10-2024	10	Anita Joshi	01-10-2024	31-10-2024	1640.00	October
11	03-10-2024	11	Kunal Deshmukh	01-10-2024	31-10-2024	1640.00	October
12	05-10-2024	12	Sonia Khanna	01-10-2024	31-10-2024	1640.00	October
13	07-10-2024	13	Yashwant Rao	01-10-2024	31-10-2024	1640.00	October
14	09-10-2024	14	Deepa Bhat	01-10-2024	31-10-2024	1640.00	October
15	11-10-2024	15	Tarun Mehta	01-10-2024	31-10-2024	1640.00	October

5. Monthly Meeting:**Society Management****Monthly Meeting Report**

MeetID	Meeting Date	Notice Date	Notice Issued By	Meeting Reason
1	05-03-2024	05-04-2024	Vijay Tambe	Budget Planning
2	07-04-2024	07-05-2024	Palav Narayan	Maintenance Review
3	10-05-2024	10-06-2024	Pranali Nevage	Security Concerns
4	12-06-2024	12-07-2024	Lalit Nahar	Community Event Planning
5	15-07-2024	15-08-2024	Anita Joshi	Annual Report Discussion
6	18-08-2024	18-09-2024	Vijay Tambe	New Member Inductions
7	20-09-2024	20-10-2024	Palav Narayan	Fire Safety Drill Planning
8	22-10-2024	22-11-2024	Pranali Nevage	Festival Preparation
9	25-11-2024	25-12-2024	Lalit Nahar	Infrastructure Upgrades
10	28-12-2024	28-01-2025	Anita Joshi	Year-End Financial Review
11	30-01-2025	28-02-2025	Vijay Tambe	Waste Management Discussion
12	25-02-2025	25-03-2025	Palav Narayan	Parking Space Allocation

6. Fine:**Society Management****Fine Report**

Fine ID	Member ID	Member Name	Fine Amount	Details
1	5	Jitendra Dubey	1000.00	Exceeding water usage limit
2	12	Sonia Khanna	750.00	Unauthorized parking
3	20	Pooja Narang	500.00	Improper garbage disposal
4	17	Arun Iyer	600.00	Damage to common property
5	22	Geeta Soni	500.00	Improper garbage disposal
6	9	Sandeep Malhotra	550.00	Unpaid society dues
7	14	Deepa Bhat	350.00	Failure to attend society meetings
8	24	Anjali Menon	1000.00	Exceeding water usage limit
9	16	Laxman Varak	850.00	Misuse of parking area
10	7	Vikram Patel	250.00	Late maintenance payment

Coding

1.Member Master:

- **Design:**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Housing Society Management - Member Master</title>
  <!-- Bootstrap CSS -->
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha3/dist/css/bootstrap.min.css"
rel="stylesheet">
  <link rel="stylesheet" href="css/styleMaster.css">
</head>
<body>
<div class="home-section">
  <?php include 'sidebar.php'; ?>
  <!-- Navbar -->
  <nav class="custom-navbar">
    <h1>Member Master</h1>
  </nav>
  <div class="member-master-page">
    <div class="form-container">

      <h2 class="text-center mb-4">Member Master</h2>
      <form method="post">
        <!-- Member ID -->
        <div class="row form-row align-items-center">
          <label for="memberId" class="col-sm-3 col-form-label text-end">Member
ID:</label>
          <div class="col-sm-6 d-flex">
            <input type="text" class="form-control me-2" id="memberId" name="txtMId"
value="<?php echo isset($_POST['btnNew']) ? $newId : "; ?>"
placeholder="Enter Member ID">
            <button type="submit" name="btnNew" class="btn btn-primary">New</button>
          </div>
        </div>

        <!-- Member Name -->
        <div class="row form-row align-items-center mt-2">
          <label for="memberName" class="col-sm-3 col-form-label text-end">Member
Name:</label>
          <div class="col-sm-6">
            <input type="text" class="form-control" id="memberName" name="txtMName"
placeholder="Enter Member Name">
          </div>
        </div>
      </form>
    </div>
  </div>
</div>
```

Developed By- Gaurav Umesh Malankar

```

<!-- Aadhar Number -->
<div class="row form-row align-items-center mt-2">
  <label for="aadharNo" class="col-sm-3 col-form-label text-end">Aadhar
Number:</label>
  <div class="col-sm-6">
    <input type="text" class="form-control" id="aadharNo" name="txtAadharNo"
placeholder="Enter Aadhar Number">
  </div>
</div>

<!-- Flat Number -->
<div class="row form-row align-items-center mt-2">
  <label for="flatNo" class="col-sm-3 col-form-label text-end">Flat Number:</label>
  <div class="col-sm-6">
    <select class="form-select" id="flatNo" name="txtFlatNo" data-bs-
container="body">
      <option value="" disabled selected>Select Flat Number</option>
      <!-- Dynamic Flat Numbers -->
      <?php
        for ($floor = 1; $floor <= 7; $floor++) {
          for ($flat = 1; $flat <= 4; $flat++) {
            $flatNumber = $floor . sprintf("%02d", $flat);
            echo "<option value=\"\$flatNumber\">$flatNumber</option>";
          }
        }
      ?>
    </select>
  </div>
</div>

<!-- Contact Number -->
<div class="row form-row align-items-center mt-2">
  <label for="contactNo" class="col-sm-3 col-form-label text-end">Contact
Number:</label>
  <div class="col-sm-6">
    <input type="text" class="form-control" id="contactNo" name="txtContactNo"
placeholder="Enter Contact Number">
  </div>
</div>

<!-- Email -->
<div class="row form-row align-items-center mt-2">
  <label for="contactNo" class="col-sm-3 col-form-label text-end">Email Id:</label>
  <div class="col-sm-6">
    <input type="text" class="form-control" id="email" name="txtEmail"
placeholder="Enter Email ID">
  </div>
</div>

<!-- Area (Sq Feet) -->
<div class="row form-row align-items-center mt-2">

```

```

        <label for="area" class="col-sm-3 col-form-label text-end">Area (Sq Feet):</label>
        <div class="col-sm-6">
            <input type="text" class="form-control" id="area" name="txtArea"
placeholder="Enter Area in Sq Feet">
        </div>
    </div>

    <!-- Registration ID -->
    <div class="row form-row align-items-center mt-2">
        <label for="registrationId" class="col-sm-3 col-form-label text-end">Registration
ID:</label>
        <div class="col-sm-6">
            <input type="text" class="form-control" id="registrationId" name="txtRegId"
placeholder="Enter Registration ID">
        </div>
    </div>

    <!-- Registration Date -->
    <div class="row form-row align-items-center mt-2">
        <label for="registrationDate" class="col-sm-3 col-form-label text-end">Registration
Date:</label>
        <div class="col-sm-6">
            <input type="date" class="form-control" id="registrationDate"
name="txtRegDate">
        </div>
    </div>

    <!-- Checked By -->
    <div class="row form-row align-items-center mt-2">
        <label for="checkedBy" class="col-sm-3 col-form-label text-end">Checked
By:</label>
        <div class="col-sm-6">
            <select class="form-select" id="checkedBy" name="txtCheckedBy">
                <option value="" disabled selected>Select Checker</option>
                <option value="Manager">Manager</option>
                <option value="Supervisor">Supervisor</option>
            </select>
        </div>
    </div>

    <!-- Buttons -->
    <div class="row mt-4">
        <div class="col-12 d-flex justify-content-center flex-wrap gap-4">
            <button type="submit" name="btnAdd" class="btn btn-success">Add</button>
            <button type="submit" name="btnUpdate" class="btn btn-
warning">Update</button>
            <button type="submit" name="btnDelete" class="btn btn-danger">Delete</button>
            <button type="submit" name="btnCancel" class="btn btn-secondary"
>Cancel</button>
            <button type="submit" name="btnShowData" class="btn btn-info" style="min-
width: 120px; white-space: nowrap;">Show Data</button>
            <button type="submit" name="btnReport" class="btn btn-

```

```
secondary">Report</button>
    </div>
</div>
</form>

<!-- Table Wrapper -->
<div class="table-wrapper">
    <?php
        if (isset($_POST['btnShowData'])) {
            echo '<h4 class="mt-4">Member Records</h4>';
            showData($conn);
        }
    ?>
</div>
</div>
</div>
</div>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-
alpha3/dist/js/bootstrap.bundle.min.js"></script>
</body>
</html>
```

- **Implementation:**

```

<?php
    include('db.php');
    include('fpdf/pdfMember.php');
?>
<?php

// Functionality when 'New' button is clicked
if (isset($_POST["btnNew"])) {
    // Generate the next Member ID
    $sql = "SELECT MAX(MID) AS MaxID FROM MemberMaster";
    $result = mysqli_query($conn, $sql);
    $newId = 1;

    if ($row = mysqli_fetch_assoc($result)) {
        $newId = $row['MaxID'] + 1;
    }
}

// Functionality when 'Add' button is clicked
if (isset($_POST["btnAdd"])) {
    // Insert data into MemberMaster table
    $id = $_POST["txtMid"];
    $name = $_POST["txtMName"];
    $aadhar = $_POST["txtAadharNo"];
    $flat = $_POST["txtFlatNo"] ?? "";
    $contact = $_POST["txtContactNo"];
    $email = $_POST["txtEmail"];
    $area = $_POST["txtArea"];
    $regId = $_POST["txtRegId"];
    $regDate = $_POST["txtRegDate"];
    $checkedBy = $_POST["txtCheckedBy"] ?? "";

    // Check if all fields are filled
    if ($id != NULL && $name != NULL && $aadhar != NULL && $flat != NULL && $contact !=
    NULL && $email != NULL && $area != NULL && $regId != NULL && $regDate != NULL &&
    $checkedBy != NULL) {

        $sql = "INSERT INTO MemberMaster (MID, MName, AadharNo, FlatNo, ContactNo, Email,
        AreaSqFeet, RegID, RegDate, CheckedBy)
        VALUES ($id, '$name', '$aadhar', '$flat', '$contact', '$email', $area, '$regId', '$regDate',
        '$checkedBy')";
        $r = mysqli_query($conn, $sql);

        if ($r) {
            echo "<script>alert('Member added successfully.')</script>";
        } else {
            echo "Error: " . mysqli_error($conn);
        }
    } else {

```

Developed By- Gaurav Umesh Malankar

```

        echo "<script>alert('Fill all fields!!!');</script>";
    }
}

// Functionality when 'Update' button is clicked
if (isset($_POST["btnUpdate"])) {
    // Get values from the form
    $id = $_POST["txtMid"];
    $name = $_POST["txtMName"];
    $aadhar = $_POST["txtAadharNo"];
    $flat = $_POST["txtFlatNo"] ?? "";
    $contact = $_POST["txtContactNo"];
    $email = $_POST["txtEmail"];
    $area = $_POST["txtArea"];
    $regId = $_POST["txtRegId"];
    $regDate = $_POST["txtRegDate"];
    $checkedBy = $_POST["txtCheckedBy"] ?? "";

    // Check if all fields are filled
    if ($id != NULL) {

        // Update query
        $sql = "UPDATE MemberMaster
            SET MName='$name', AadharNo='$aadhar', FlatNo='$flat', ContactNo='$contact',
            Email='$email', AreaSqFeet=$area, RegID='$regId', RegDate='$regDate',
            CheckedBy='$checkedBy'
            WHERE MID=$id";

        $r = mysqli_query($conn, $sql);

        if ($r) {
            echo "<script>alert('Member updated successfully.')</script>";
        } else {
            echo "Error: " . mysqli_error($conn);
        }
    } else {
        echo "<script>alert('Fill all fields!!!');</script>";
    }
}

// Functionality when 'Delete' button is clicked
if (isset($_POST["btnDelete"])) {
    // Get Member ID from the form
    $id = $_POST["txtMid"];

    // Check if Member ID is provided
    if ($id != NULL) {
        // Delete query
        $sql = "DELETE FROM MemberMaster WHERE MID='$id'";
        $r = mysqli_query($conn, $sql);

        if ($r) {

```

```

        echo "<script>alert('Member deleted successfully.')</script>";
    } else {
        echo "Error: " . mysqli_error($conn);
    }
} else {
    echo "<script>alert('Member ID is required!');</script>";
}
}

// Function to display all data in the MemberMaster table
function showData($conn)
{
    $sql = "SELECT * FROM MemberMaster";
    $r = mysqli_query($conn, $sql);

    echo "<table border='1' class='table table-dark table-striped'><thead>
        <tr><th>Member ID</th><th>Member Name</th><th>Aadhar Number</th><th>Flat
Number</th>
        <th>Contact Number</th><th>Email</th><th>Area</th><th>Registration
ID</th><th>Registration Date</th><th>Checked By</th></tr></thead><tbody>";

    if (mysqli_num_rows($r) > 0) {
        while ($x = mysqli_fetch_assoc($r)) {
            echo "<tr>
                <td>" . $x['MID'] . "</td>
                <td>" . $x['MName'] . "</td>
                <td>" . $x['AadharNo'] . "</td>
                <td>" . $x['FlatNo'] . "</td>
                <td>" . $x['ContactNo'] . "</td>
                <td>" . $x['Email'] . "</td>
                <td>" . $x['AreaSqFeet'] . "</td>
                <td>" . $x['RegID'] . "</td>
                <td>" . $x['RegDate'] . "</td>
                <td>" . $x['CheckedBy'] . "</td>
                </tr>";
        }
    } else {
        echo "<tr><td colspan='10'>No records found in MemberMaster table</td></tr>";
    }
    echo "</tbody></table>";
}

// Call the function to display data
?>

```

1.Committee Master:

- Design:

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Housing Society Management - Committee Master</title>
  <!-- Bootstrap CSS -->
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha3/dist/css/bootstrap.min.css"
rel="stylesheet">
  <?php include('Sidebar.php'); ?> <!-- Sidebar should be here -->
  <link rel="stylesheet" href="css/styleMaster.css">
</head>
<body>
<div class="home-section">
  <!-- Navbar -->
  <nav class="custom-navbar">
    <h1> Committee Master</h1>
  </nav>
  <div class="member-master-page">

    <div class="form-container">

      <h2 class="text-center mb-4">Committee Master</h2>
      <form method="post" action="">
        <!-- Committee ID -->
        <div class="row form-row align-items-center">
          <label for="committeeId" class="col-sm-3 col-form-label text-end">Committee
ID:</label>
          <div class="col-sm-6 d-flex">
            <input type="text" class="form-control me-2" id="committeeId" name="txtCId"
value="<?php if(isset($_SESSION['newId'])) echo $_SESSION['newId']; ?>"
placeholder="Enter Committee ID">
            <button type="submit" name="btnNew" class="btn btn-primary">New</button>
          </div>
        </div>

        <!-- Member ID -->
        <div class="row form-row align-items-center mt-2">
          <label for="memberId" class="col-sm-3 col-form-label text-end">Member ID:</label>
          <div class="col-sm-6 d-flex">
            <select class="form-select me-2" id="memberId" name="txtMId">
              <option value="" disabled selected class="placholder option">Enter Member
Id</option>
              <?php
                $sql = "SELECT MID FROM MemberMaster";
                $result = mysqli_query($conn, $sql);
                $selectedMid = isset($_SESSION['mid']) ? $_SESSION['mid'] : "";

```



```

        if (mysqli_num_rows($result) > 0) {
            while ($row = mysqli_fetch_assoc($result)) {
                $isSelected = ($row['MID'] == $selectedMid) ? "selected" : "";
                echo "<option value=\"" . $row['MID'] . "\" $isSelected>" . $row['MID'] .
" </option>";
            }
        }
    ?>
</select>
<button type="submit" name="btnSearch" class="btn btn-primary">Search</button>
</div>
</div>

<!-- Member Name -->
<div class="row form-row align-items-center mt-2">
    <label for="memberName" class="col-sm-8 col-form-label text-end">Member
Name:</label>
    <div class="col-sm-6 d-flex">
        <select class="form-select me-2" id="memberName" name="txtMName">
            <option value="" disabled selected class="placeholder option">Enter Member
Name</option>
            <?php
                $sql = "SELECT MName FROM MemberMaster";
                $result = mysqli_query($conn, $sql);
                $selectedMid = isset($_SESSION['name']) ? $_SESSION['name'] : "";

                if (mysqli_num_rows($result) > 0) {
                    while ($row = mysqli_fetch_assoc($result)) {
                        $isSelected = ($row['MName'] == $selectedMid) ? "selected" : "";
                        echo "<option value=\"" . $row['MName'] . "\" $isSelected>" . $row['MName']
. "</option>";
                    }
                }
            ?>
        </select>

    </div>
</div>

<!-- Contact -->
<div class="row form-row">
    <label for="contact" class="col-sm-3 col-form-label text-end">Contact:</label>
    <div class="col-sm-6">
        <input type="text" class="form-control" id="contact" name="txtContact"
value="<?php if(isset($_SESSION['contact'])) echo $_SESSION['contact']; ?>"
placeholder="Enter Contact Number">
    </div>
</div>

```

```

<!-- Aadhaar Number -->
<div class="row form-row">
  <label for="aadharNo" class="col-sm-3 col-form-label text-end">Aadhaar No:</label>
  <div class="col-sm-6">
    <input type="text" class="form-control" id="aadharNo" name="txtAadharNo"
      value="<?php if(isset($_SESSION['aadhar'])) echo $_SESSION['aadhar']; ?>"
      placeholder="Enter Aadhaar Number">
  </div>
</div>

<!-- Designation -->
<div class="row form-row align-items-center" >
  <label for="designation" class="col-sm-3 col-form-label text-end">Designation:</label>
  <div class="col-sm-6">
    <select class="form-select" id="designation" name="txtDesignation">
      <option value="" disabled selected>Select Designation</option>
      <option value="Chairman">Chairman</option>
      <option value="Secretary">Secretary</option>
      <option value="Tresaurry">Tresaurry</option>
      <option value="Manager">Manager</option>
      <option value="Supervisor">Supervisor</option>
      <option value="Member">Member</option>
    </select>
  </div>
</div>

<!-- Appointment Date -->
<div class="row form-row">
  <label for="appointmentDate" class="col-sm-3 col-form-label text-end">Appointment
Date:</label>
  <div class="col-sm-6">
    <input type="date" class="form-control" id="appointmentDate"
name="txtAppointmentDate">
  </div>
</div>

<!-- Due Date -->
<div class="row form-row">
  <label for="dueDate" class="col-sm-3 col-form-label text-end">Due Date:</label>
  <div class="col-sm-6">
    <input type="date" class="form-control" id="dueDate" name="txtDueDate">
  </div>
</div>

<!-- Buttons -->
<div class="row mt-4">
  <div class="col-12 d-flex justify-content-center flex-wrap gap-4">
    <button type="submit" name="btnAdd" class="btn btn-success">Add</button>
    <button type="submit" name="btnUpdate" class="btn btn-warning">Update</button>
    <button type="submit" name="btnDelete" class="btn btn-danger">Delete</button>
  </div>
</div>

```

```

        <button type="submit" name="btnCancel" class="btn btn-secondary"
>Cancel</button>
        <button type="submit" name="btnShowData" class="btn btn-info" style="min-width:
120px; white-space: nowrap;">Show Data</button>
        <button type="submit" name="btnReport" class="btn btn-
secondary">Report</button>
    </div>
</div>
</form>
<!-- Table Wrapper -->
<div class="table-wrapper">
    <!-- Show data -->
    <?php
        if (isset($_POST['btnShowData'])) {
            echo '<h3 class="mt-4">Committee Records</h3>';
            showData($conn);
        }
    ?>
</div>
</div>
</div>
</div>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-
alpha3/dist/js/bootstrap.bundle.min.js"></script>
</body>
</html>

```

- **Implementation:**

```

<?php
    session_start();
    include('db.php');
    include('fpdf/pdfCommittee.php');

// Functionality when 'New' button is clicked
if (isset($_POST["btnNew"])) {
    // Generate the next Committee ID
    $sql = "SELECT MAX(CID) AS MaxID FROM CommitteeMaster";
    $result = mysqli_query($conn, $sql);
    $newId = 1;

    if ($row = mysqli_fetch_assoc($result)) {
        $newId = $row['MaxID'] + 1; // Increment the max ID
    }

    // Store the new ID in the session
    $_SESSION['newId'] = $newId;
}

// Functionality when 'Add' button is clicked
if (isset($_POST["btnAdd"])) {
    // Insert data into CommitteeMaster table
    $cid = $_POST["txtCID"];
    $mid = $_POST["txtMId"];
    $name = $_POST["txtMName"];
    $contact = $_POST["txtContact"];
    $aadhar = $_POST["txtAadharNo"];
    $designation = $_POST["txtDesignation"];
    $adate = $_POST["txtAppointmentDate"];
    $ddate = $_POST["txtDueDate"];

    // Check if all fields are filled
    if ($cid != NULL && $mid != NULL && $name != NULL && $contact != NULL && $aadhar
    != NULL && $designation != NULL && $adate != NULL && $ddate != NULL) {
        $sql = "INSERT INTO CommitteeMaster (CID, MID, MName, ContactNo, AadharNo,
Designation, ADate, DDate)
        VALUES ($cid, $mid, '$name', '$contact', '$aadhar', '$designation', '$adate', '$ddate')";
        $r = mysqli_query($conn, $sql);

        if ($r) {
            echo "<script>alert('Committee member added successfully.')</script>";
        } else {
            echo "Error: " . mysqli_error($conn);
        }
    } else {
        echo "<script>alert('Fill all fields!!!');</script>";
    }
}

```

Developed By- Gaurav Umesh Malankar

```
// Functionality when 'Update' button is clicked
if (isset($_POST["btnUpdate"])) {
    // Get values from the form
    $cid = $_POST["txtCid"];
    $mid = $_POST["txtMId"] ?? "";
    $name = $_POST["txtMName"] ?? "";
    $contact = $_POST["txtContact"];
    $aadhar = $_POST["txtAadharNo"];
    $designation = $_POST["txtDesignation"] ?? "";
    $adate = $_POST["txtAppointmentDate"];
    $ddate = $_POST["txtDueDate"];

    // Check if all fields are filled
    if ($cid != NULL) {
        // Update query
        $sql = "UPDATE CommitteeMaster
                SET MID='$mid', MName='$name', ContactNo='$contact', AadharNo='$aadhar',
                Designation='$designation', ADate='$adate', DDate='$ddate'
                WHERE CID=$cid";

        $r = mysqli_query($conn, $sql);

        if ($r) {
            echo "<script>alert('Committee member updated successfully.')</script>";
        } else {
            echo "Error: " . mysqli_error($conn);
        }
    } else {
        echo "<script>alert('Fill all fields!!!');</script>";
    }
}

// Functionality when 'Delete' button is clicked
if (isset($_POST["btnDelete"])) {
    // Get Committee ID from the form
    $cid = $_POST["txtCid"];

    // Check if Committee ID is provided
    if ($cid != NULL) {
        // Delete query
        $sql = "DELETE FROM CommitteeMaster WHERE CID='$cid'";
        $r = mysqli_query($conn, $sql);

        if ($r) {
            echo "<script>alert('Committee member deleted successfully.')</script>";
        } else {
            echo "Error: " . mysqli_error($conn);
        }
    } else {
        echo "<script>alert('Fill all fields!!!');</script>";
    }
}
```

```

    }
}

// Functionality for 'Cancel' button
if (isset($_POST['btnCancel'])) {
    unset($_SESSION['mid']);
    $_SESSION['name'] = '';
    $_SESSION['contact'] = '';
    $_SESSION['aadhar'] = '';
    unset($_SESSION['newId']);
    //$_POST = array();
}

// Functionality when 'Search' button is clicked
if (isset($_POST['btnSearch'])) {
    $mid = $_POST['txtMid'];

    $conn1 = mysqli_connect("localhost", "root", "", "housingsociety");

    if (!empty($mid) && $conn) {
        $sql1 = "SELECT MID, MName, ContactNo, AadharNo FROM membermaster WHERE MID = '$mid'";
        $result = mysqli_query($conn1, $sql1);

        if ($row = mysqli_fetch_assoc($result)) {
            $_SESSION['mid'] = $row['MID'];
            $_SESSION['name'] = $row['MName'];
            $_SESSION['contact'] = $row['ContactNo'];
            $_SESSION['aadhar'] = $row['AadharNo'];
        } else {
            echo "<script>alert('No member found with this ID.');

```

63 Housing Society Management System

```
echo "<tr>
    <td>" . $x['CID'] . "</td>
    <td>" . $x['MID'] . "</td>
    <td>" . $x['MName'] . "</td>
    <td>" . $x['ContactNo'] . "</td>
    <td>" . $x['AadharNo'] . "</td>
    <td>" . $x['Designation'] . "</td>
    <td>" . $x['ADate'] . "</td>
    <td>" . $x['DDate'] . "</td>
</tr>";
}
} else {
    echo "<tr><td colspan='8'>No records found in CommitteeMaster table</td></tr>";
}
echo "</tbody></table>";
}
$sql = "SELECT MID FROM MemberMaster";
$result = mysqli_query($conn, $sql);
// Call the function to display data
?>
```

System Implementation

IMPLEMENTATION:

Implementing a system for an Housing Society Management System site involves several key components and steps. Here's a high-level overview of the system implementation:

1. Database Design

MySQL Schema:

- **Users Table:** Stores user credentials and roles (id, user_type, username, email, password, created_at).
- **Announcement Table:** Stores society announcements (announcement_subject, announcement_text, created_at).
- **Member Master Table:** Stores member details (MID, MName, AadharNo, FlatNo, ContactNo, Email, AreaSqFeet, RegID, RegDate, CheckedBy).
- **Committee Master Table:** Stores committee member details (CID, MID, MName, ContactNo, AadharNo, Designation, ADate, DDate).
- **Complaints Table:** Tracks user complaints (id, name, email, phone, complaint_type, message, submission_date).
- **Election Details Table:** Stores election information (EID, EDate, NSecretary, Chairman, PStartDate, PEndDate, EPosition, CMembers).
- **Maintenance Table:** Stores maintenance records (BNo, BDate, MID, MName, SDate, EDate, Amount, BDetails).
- **Monthly Meeting Table:** Logs society meetings (MeetID, MDate, NDate, NoticeIssuedBy, Designation, AgendaPhotoPath).
- **Fine Table:** Stores fines imposed on members (FID, MID, MName, FAmount, Details).
- **Events Table:** Stores event details (id, event_title, event_description, event_date, created_at).
- **Feedback Table:** Stores user feedback (id, feedback_type, feedback_message, first_name, last_name, email, submission_date).

2. Frontend Development

Technologies:

- HTML, CSS, Bootstrap for UI design.
- JavaScript for dynamic content and form validation.
- Bootstrap for seamless site navigation and design.

Forms:

- **User Registration & Login Forms:** Allow users to register and log in securely.
- **Announcement Form:** Enables admin to post announcements.
- **Member Master Form:** Handles adding, editing, and viewing member details.
- **Committee Master Form:** Manages committee-related records.
- **Election Details Form:** Stores election-related details.
- **Maintenance Form:** Manages society maintenance payments and details.
- **Monthly Meeting Form:** Stores meeting records and agenda details.
- **Fine Form:** Manages fines imposed on members.
- **Event Form:** Allows members to register events.
- **Feedback Form:** Collects user feedback and suggestions.

3. Backend Development

Technology: PHP (Core PHP for structured development).

Backend Features:

- **User Authentication:** Secure login, registration, password hashing using bcrypt.
- **Role-based Access Control:** Differentiates access for admin and regular users.
- **CRUD Operations:** Create, Read, Update, Delete functionalities for all modules.
- **Data Validation:** Ensures integrity and accuracy of user inputs.
- **Error Handling:** Uses try-catch mechanisms to manage exceptions.
- **API Endpoints:** RESTful APIs for communication between frontend and backend.

4. User Authentication

Implementation:

- User registration with email verification.
- Login authentication with session management.
- Role-based access for members, committee members, and admins.

5. Sidebar Navigation

- **Dashboard:** Displays an overview of society statistics.
- **Announcements:** View and manage announcements.
- **Member Management:** Manage society members.
- **Committee Management:** Handle committee details.
- **Election Details:** Store election information.
- **Maintenance Records:** Track maintenance payments.
- **Monthly Meetings:** Manage and schedule meetings.
- **Fines:** Track fines imposed on members.
- **Events:** Create and manage society events.
- **Feedback & Complaints:** Collect and respond to user feedback.
- **Logout:** Securely logs the user out.

6. System Security & Optimization

- **Secure Password Storage:** Hashing using bcrypt.
- **Prepared Statements:** Prevent SQL injection attacks.
- **Optimized Queries:** Indexing for efficient database performance.

BIBLIOGRAPHY

References and Bibliography:

Online Documentation and Tutorials:

1. **PHP Manual** – PHP Documentation. Available at: <https://www.php.net/manual/en/>
2. **MySQL Documentation** – Oracle. Available at: <https://dev.mysql.com/doc/>
3. **HTML & CSS Reference** – Mozilla Developer Network (MDN). Available at: <https://developer.mozilla.org/en-US/docs/Web>
4. **Bootstrap Documentation** – Bootstrap Framework. Available at: <https://getbootstrap.com/docs/>
5. **JavaScript Guide** – Mozilla Developer Network (MDN). Available at: <https://developer.mozilla.org/en-US/docs/Web/JavaScript>

Books:

1. Nixon, R. (2021). *Learning PHP, MySQL & JavaScript: With jQuery, CSS & HTML5*. O'Reilly Media.
2. Ullman, L. (2017). *PHP and MySQL for Dynamic Web Sites: Visual QuickPro Guide*. Peachpit Press.

Design and Concept References:

1. Sonea, T. (2020). *Web Development with PHP, MySQL, Bootstrap, and JavaScript: A Modern Full-Stack Approach*.
2. Meyer, E. (2018). *CSS: The Definitive Guide*. O'Reilly Media.
3. Welling, L., & Thomson, L. (2017). *PHP and MySQL Web Development*. Addison-Wesley.

Thank You !