# Summer Internship 24-25
# On

# Society Management System

*as the partial fulfilment of*

## Semester- V study

*for the dearee of*

## Bachelorof Science (Information Technology)

*(Affiliated to Sarvajanik University)*

*during the academic year 2024 -2025.*


**Developed By:**

Harsh Gilitwala

**Company Name**

Alekhan Infotech Solutions Private Limited



**SarvajanikUniversity**

**Shree RamkrishnaInstitute of Computer Education and AppliedSciences**

Behind P.T Science College, M.T.B. College Campus, Athwalines, Surat-395 001

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# CERTIFICATE

## DEPARTMENT OF COMPUTER SCIENCE

*This is to certify that*

*Student name*
Harsh Kamleshkumar Gilitwala

*Enrollment no*
SR23BSIT047

*has / have successfully completed his / her / their Summer Internship work 24-25 entitled.*

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**Internship Incharge**

**HOD**
**Dept. of Computer Science**

**Date:**_____

**Place:Surat**

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**Universitv Examination:**

**Enrollment No. __SR23BSIT047_**
.
**Signature of External Examiners:** _____

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**Name:** Harsh Kamleshkumar Gilitwala

**Enrollment No:** SR23BSIT047

**Class:** BSc. IT - A

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**Date: 17-06-2025**

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Harsh Kamleshkumar Gilitwala** has successfully completed his Project Training in **Software Development** at **Alekhan Infotech Solutions Pvt. Ltd.** from **April 21, 2025, to June 13, 2025**.

During this period, Harsh actively participated in various software development activities, including coding, debugging, and project implementation. He demonstrated a keen understanding of programming concepts, problem-solving skills, and teamwork. His contributions to the project were valuable, and he exhibited professionalism and dedication throughout the training.

We appreciate his efforts and wish him success in his future endeavors.

**Best regards,**

ALEKHAN INFOTECH SOLUTIONS PVT. LTD. SURAT

**Jayesh Khambhadiya** (Director)
**ALEKHAN INFOTECH SOLUTIONS PRIVATE LIMITED**

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# Society Management System

## Introduction

Societies or residential complexes often face challenges in communication, complaint management, event coordination, and record maintenance. Traditional methods involve manual registers, physical notice boards, and inefficient workflows that lead to delays, miscommunication, and poor record-keeping.

Developed using **ASP.NET Framework Web Application**, **C#**, **JavaScript**, **AJAX**, and **Bootstrap**, **Microsoft SQL Server** the system allows both admin and users to interact with their society digitally. Admins can post notices, view and resolve complaints, manage events and maintenance, while residents can raise issues, view notices, schedule visitors, and participate in community activities.

## Objectives of the Project

The main objectives of this project are:

- To provide a centralized system for society operations
- To digitize notice board communication
- To facilitate complaint submission and resolution
- To track visitor scheduling and approval
- To manage maintenance records and payments
- To enhance user interaction with the community (events, polls, etc.)
- To make society operations more efficient, secure, and trackable

## System Requirements

**1. Software Requirements**

- **Operating System:** Windows 10 or later
- **IDE:** Visual Studio 2022
- **Database:** Microsoft SQL Server
- **Framework:** ASP.NET Framework (Web Forms)
- **Browser:** Chrome, Edge, Firefox (latest versions)

**2. Hardware Requirements**

- **Processor:** Intel Core i3 or higher
- **RAM:** 4 GB minimum

- **Hard Disk:** 500 MB (for project files and database)

## Database Design

The system uses a **SQL Server** database that stores user details, notices, complaints, events, maintenance data, and visitor records.

**Key Tables in the Database:**

| Table Name | Description |
|---|---|
| Users | Stores admin, owner, family members' info |
| Notices | Holds all posted notices |
| Complaints | Contains complaints raised by users |
| Events | Information about society events |
| Visitor Schedule | Details of visitor scheduling by residents |
| Maintenance Payments | Tracks amount paid per flat/month |
| Flats | Basic flat info, flat number, etc. |
| Recent Activity | Stores recent actions (non-db permanent log) |

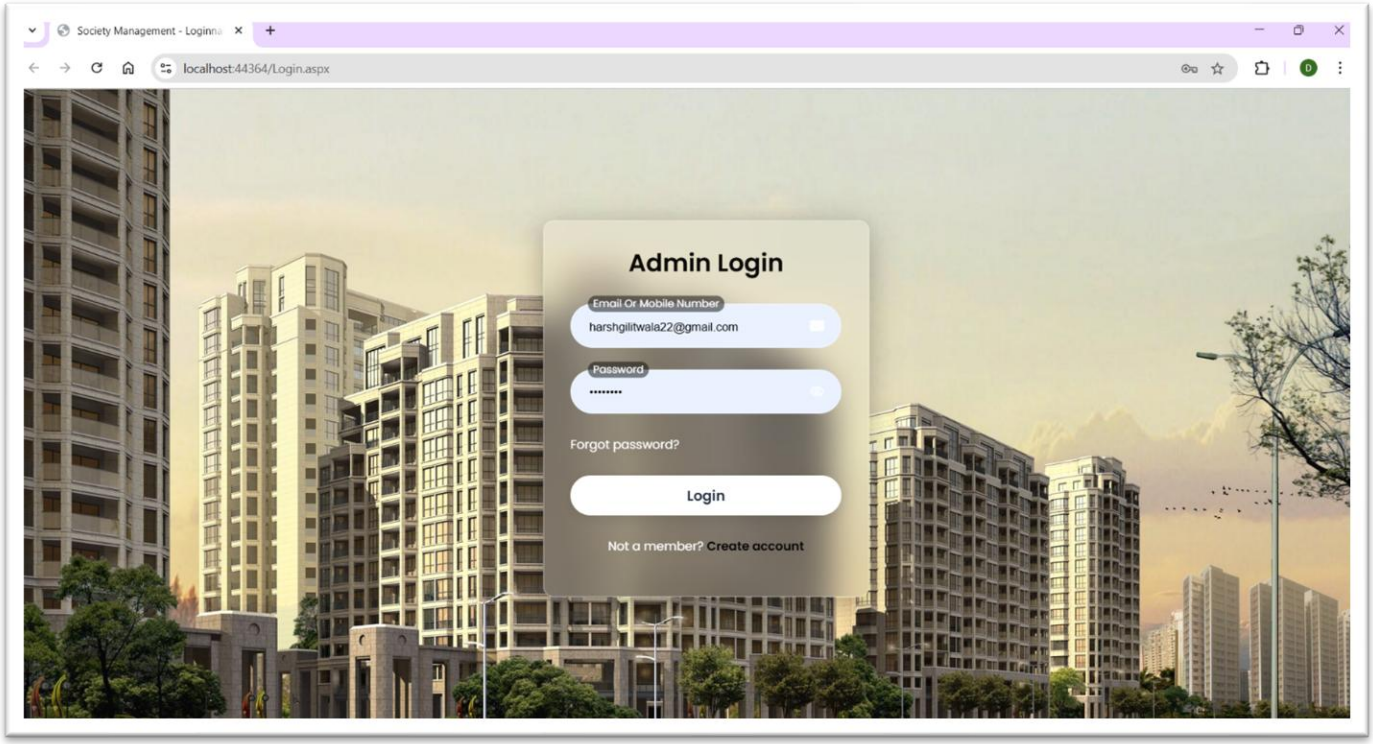
## System Overview

- **Admin**
- **Owner/User**
- **Committee Members**

Each has access to specific modules as per their role.

## Admin Module

### 1. Login Page

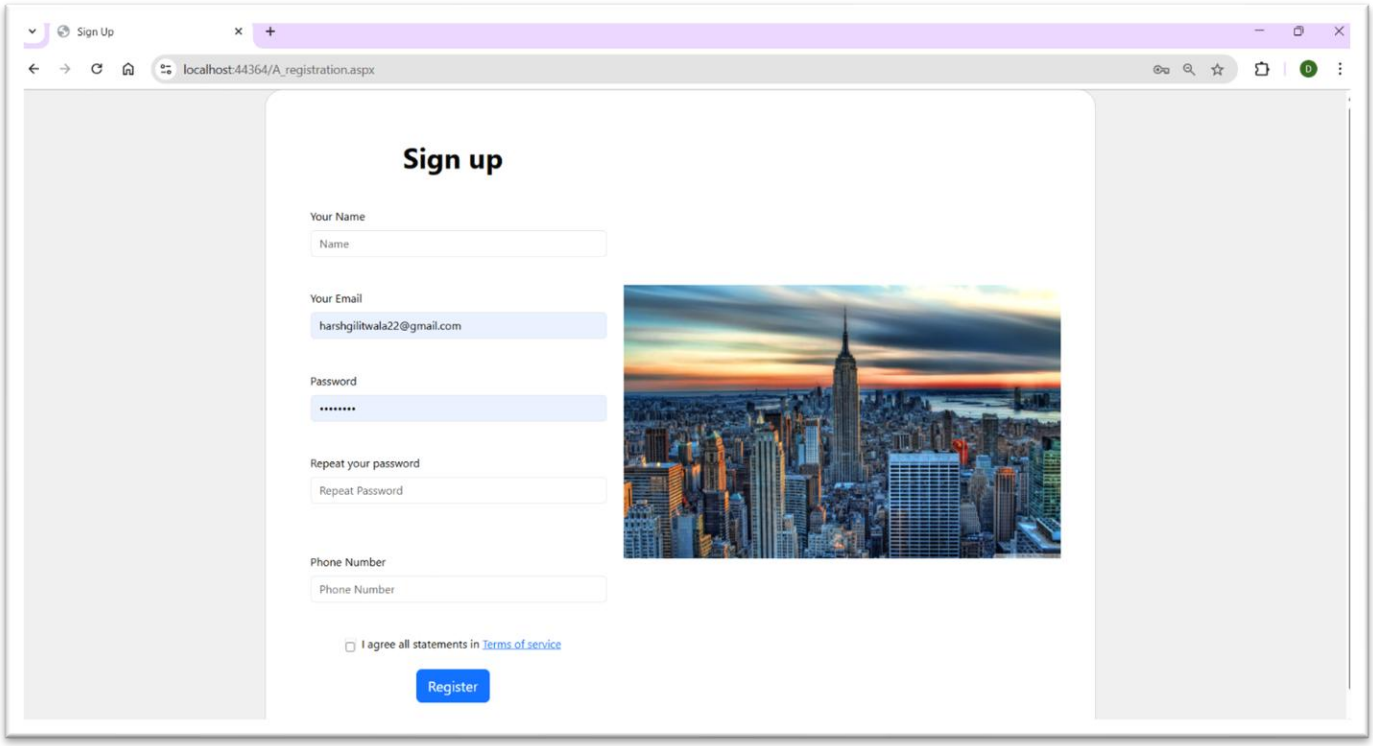



The Admin Login Page provides authorized access to the administrative functionalities of the Society Management System. It ensures secure login via email or mobile number and password authentication.

### Functionality:

- Validates admin credentials before granting access.
- Provides password recovery options.
- Allows admin to registration if not already registered.

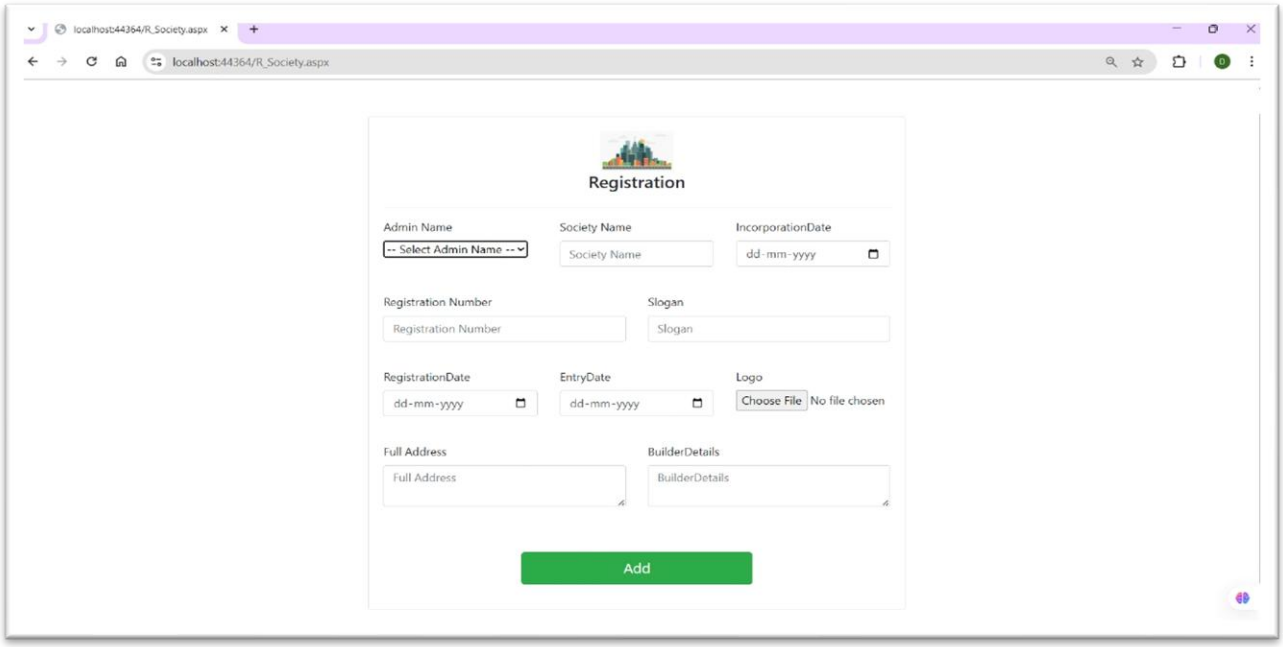
## 2. Registration Page




The Admin Registration Page allows new administrators to create an account for managing society-related operations. It ensures secure registration with email verification and password protection.

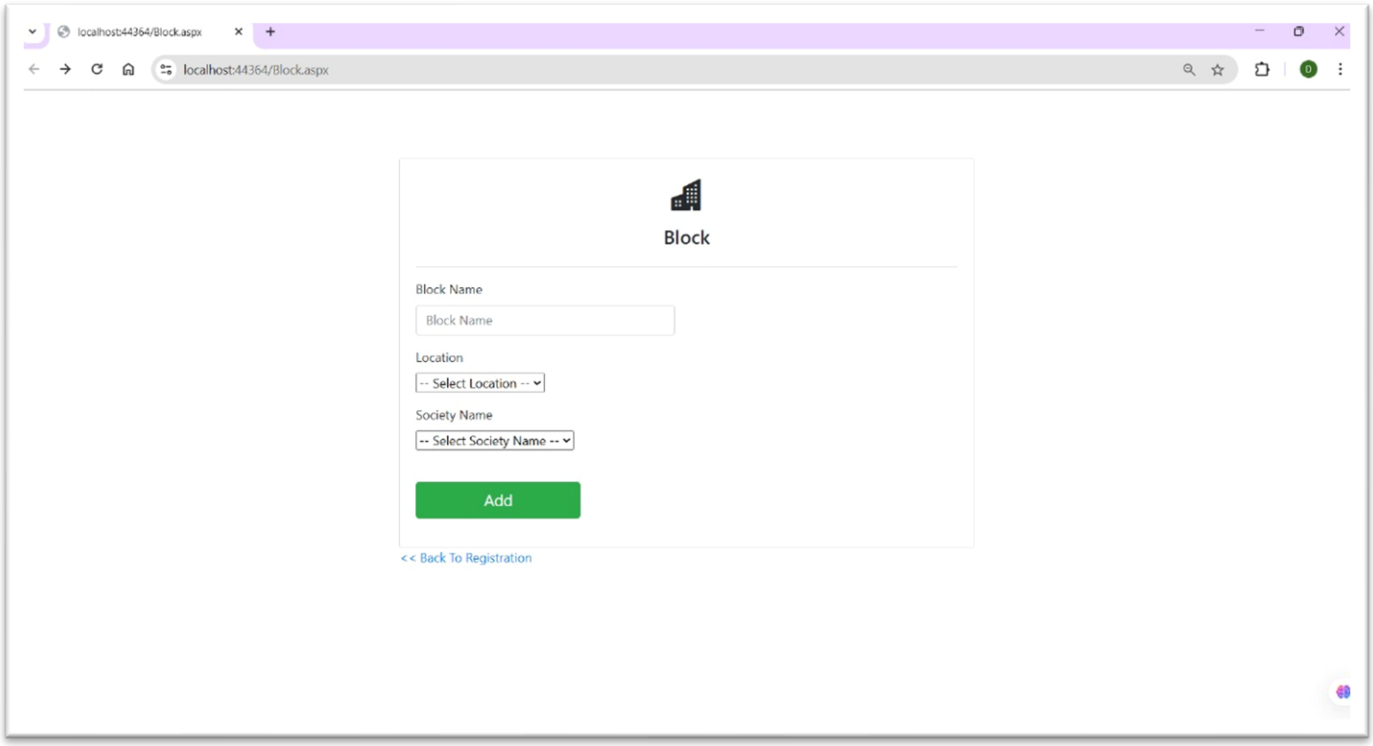
## 3. Society Registration Page

This page is designed for developers or authorized personnel to register a new society in the system. It provides a structured interface for entering all the relevant details related to a residential society.



This form allows the registration of a new society with essential administrative and contact details. It includes a dropdown for selecting an existing admin and input fields for entering society-related data. The form ensures that only valid and already registered admins can be assigned as the society administrator.

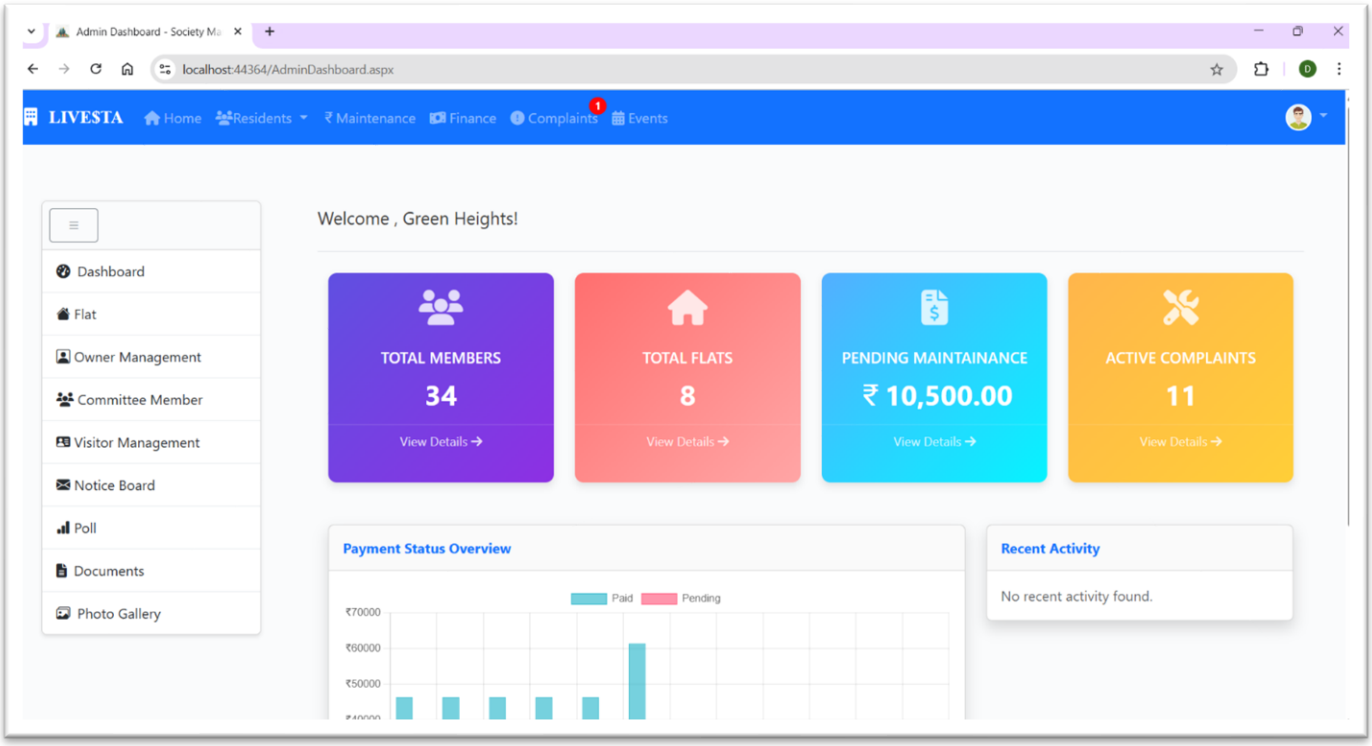
## 4. Block Registration Page

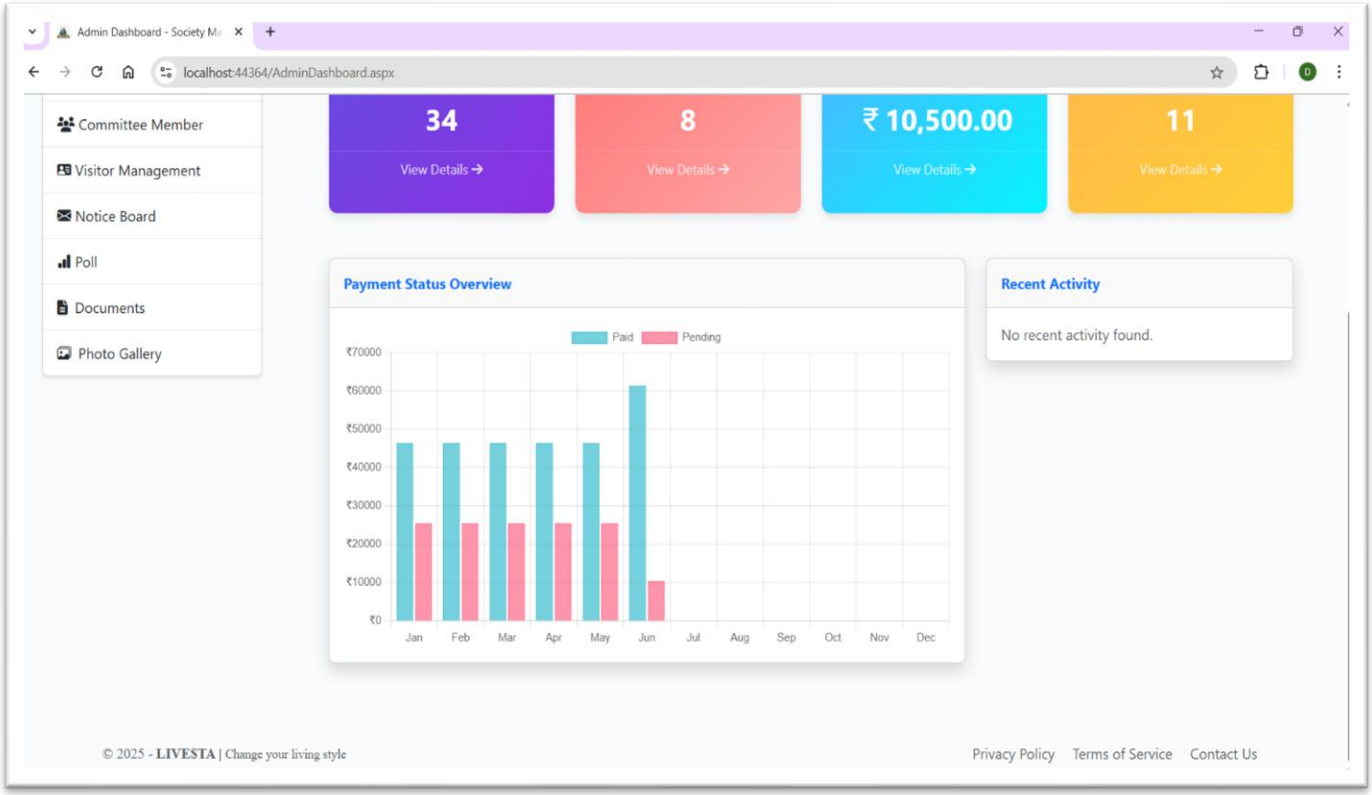



This page is used by the **developer** or authorized personnel to add blocks (such as "A Block", "B Block", etc.) under a registered society. Each block is associated with a specific location and society to maintain organized and accurate data segmentation within the Society Management System.

The **Block Registration** page allows the system developer to assign blocks to an already registered society. The blocks serve as subdivisions within a society for better organization of flats, families, and maintenance tracking.

## 5. Admin Dashboard




This page serves as the central control panel for society administrators after a successful login. It provides an overview of critical society metrics and quick access to various modules such as resident data, maintenance, finance, complaints, and more.

The main content provides a quick overview of society status for the admin. It shows total members, flats, pending maintenance, and complaints through summary cards. A payment chart tracks monthly paid vs pending dues, and the recent activity section logs system actions to help with monitoring and management.

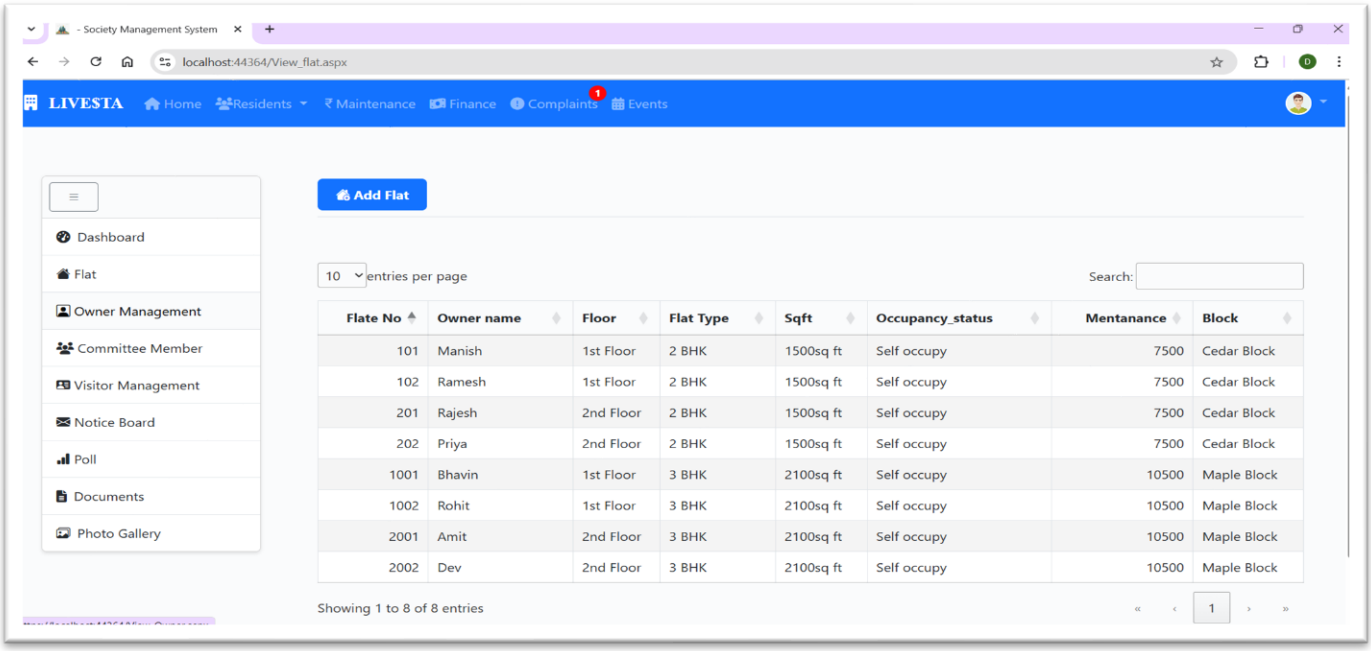
## Header (Top Navigation Bar)

| Element | Description |
|---|---|
| **Application Name/Logo** | Displayed as LIVESTA, representing the system's brand. Located on the left. |
| **Home** | Navigates back to the dashboard page. |
| **Residents** | Redirects to a section to manage society residents (owners, family, tenants). |
| **Maintenance** | Opens maintenance collection and status modules. |
| **Finance** | Provides access to billing, payments, and financial tracking. |
| **Complaints** | Opens the complaints module. A red badge shows unread/active complaints. |
| **Events** | Takes the admin to view or manage society events. |
| **User Icon/Profile** | Displayed on the top-right. Likely contains options like Profile, Settings, Logout. |

## Sidebar (Left Navigation Panel)

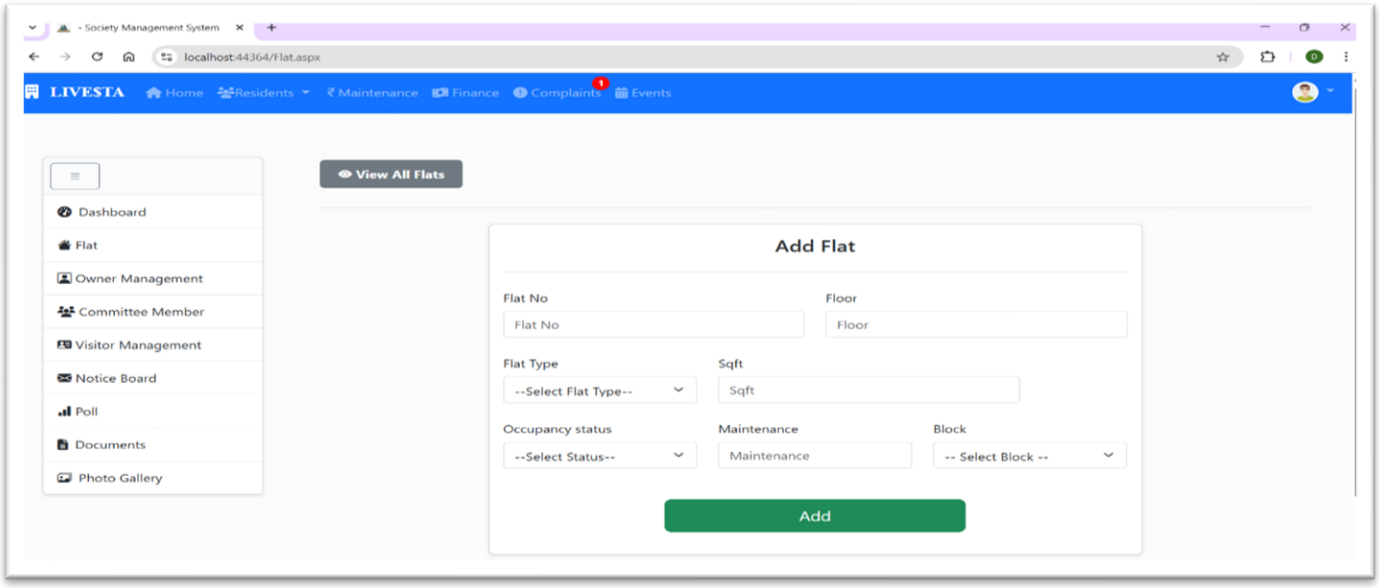
| Menu Option | Description |
|---|---|
| **Dashboard** | Redirects to the admin dashboard main page. |
| **Flat** | Manages flat creation, updates, and listing. |
| **Owner Management** | Adds and manages flat owners. |
| **Committee Member** | Adds and manages members of the society committee. |
| **Visitor Management** | View and manage visitor entry records. |
| **Notice Board** | Publishes and manages society-wide announcements. |
| **Poll** | Allows the creation of polls or voting events. |
| **Documents** | Uploads and manages important society-related documents. |
| **Photo Gallery** | Manages the gallery of images (events, infrastructure, etc.). |

## 6. View Flats




This page is used by the society admin to view, manage, and monitor all flats within the society. It provides a structured display of flat-related data such as owner name, floor, size, type, occupancy status, maintenance amount, and block name.

## 7. Add Flat Page

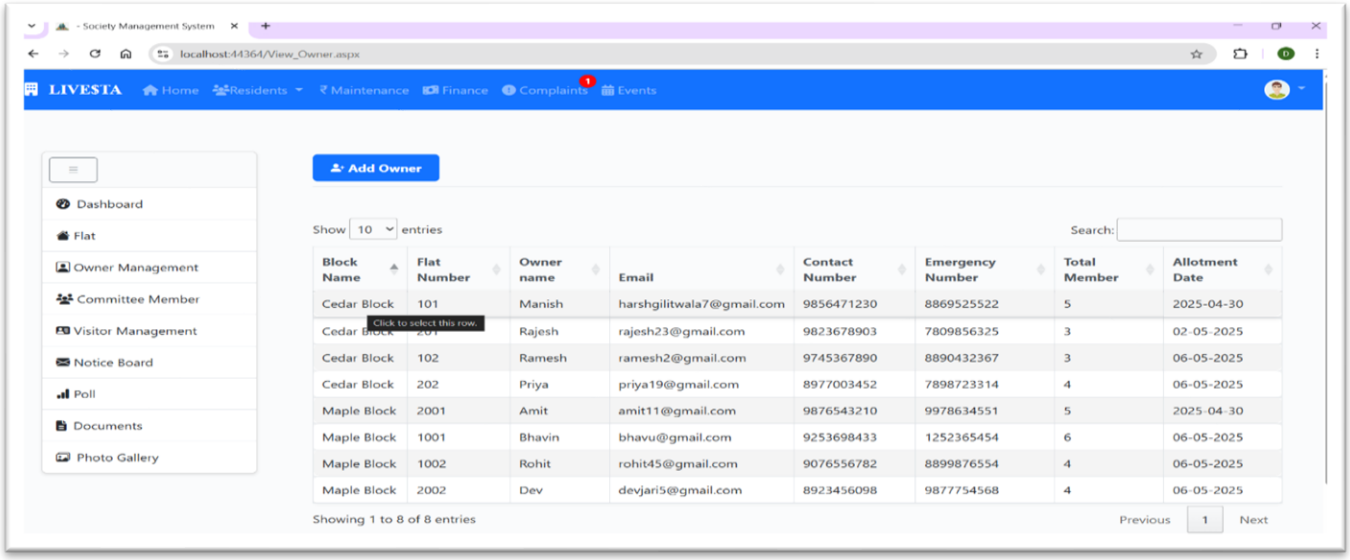



This page allows the **admin to add a new flat** to the system with details like flat number, floor, type, area, occupancy status, maintenance amount, and block.

The **block dropdown is dynamically fetched** based on the blocks inserted by the **developer at the time of society registration**, ensuring only valid blocks appear.

This page opens when clicking the "**Add Flat**" button on the **View flat** page.

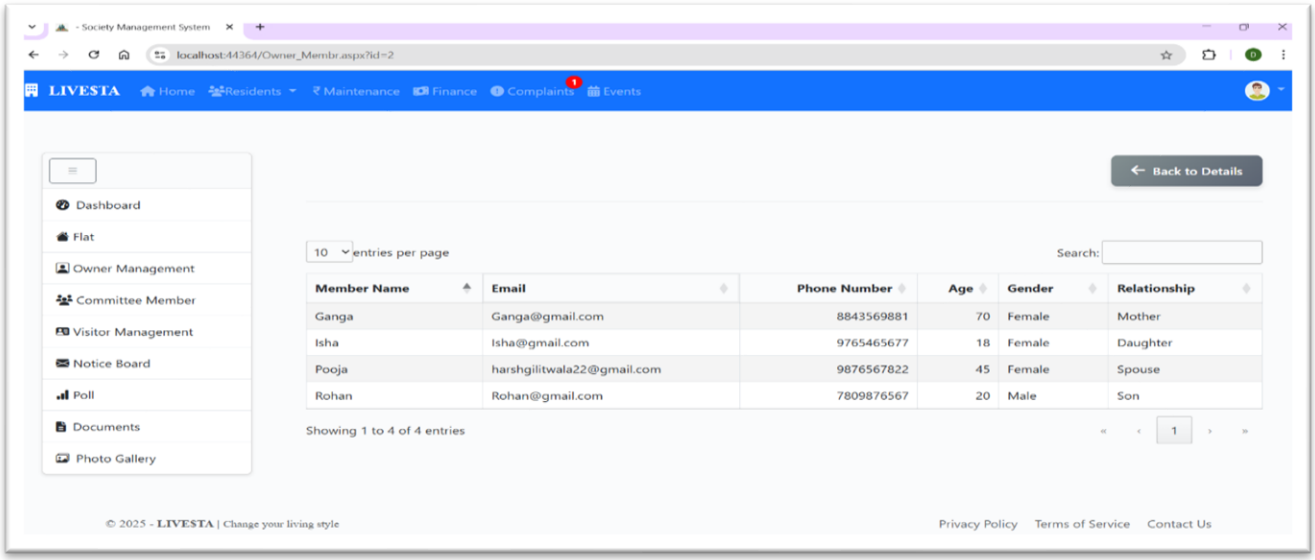
## 8. View Owners




This page is displayed when the **Owner Management** menu is clicked. It shows a **GridView of all flat owners**, including **Block Name**, **Flat Number**, **Owner Name**, **Email**, **Contact Number**, **Emergency Number**, **Total Members**, and **Allotment Date**.

Instead of using a separate view button, the page supports **clicking directly on any row** to **view the family members** of that owner. The selected owner's ID is passed through the query string to the next page.

## 9. View Family Members

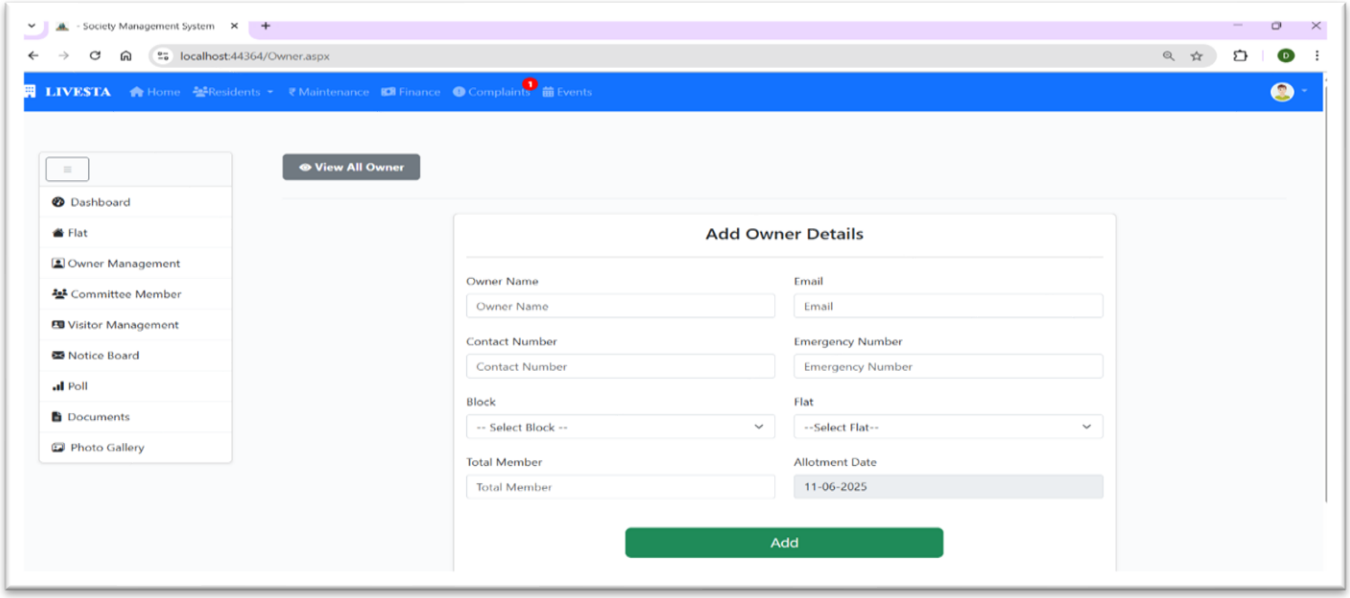



Displays the **family members** of a **selected flat owner**.

When an **admin clicks a row** in the **Owner GridView**, this page opens using the **Owner ID** from the **query string**. It fetches and displays **member details** such as **Name**, **Email**, **Phone**, **Age**, **Gender**, and **Relationship**.

A **"Back to Details"** button is provided to return to the **main Owner list**.

## 10. Add Owner




To **collect and save owner details** for residential flats in a housing society. This form allows admin or to input key information about flat owners for management and record-keeping purposes.

## 11.Comittee Member

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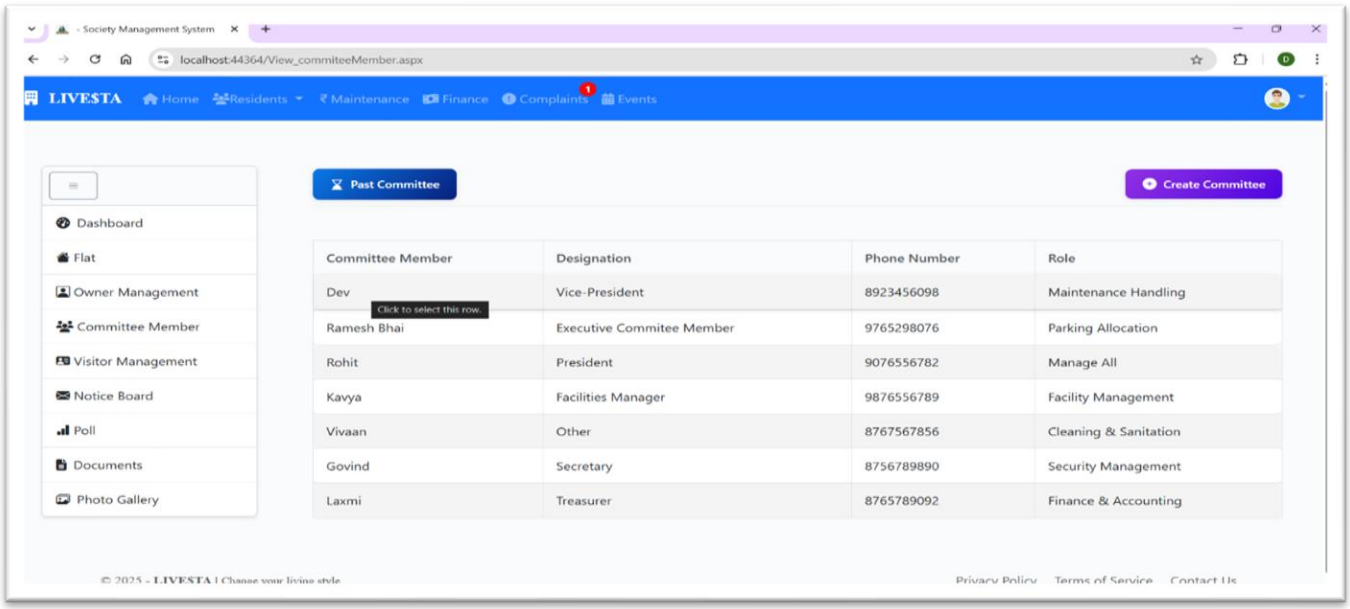
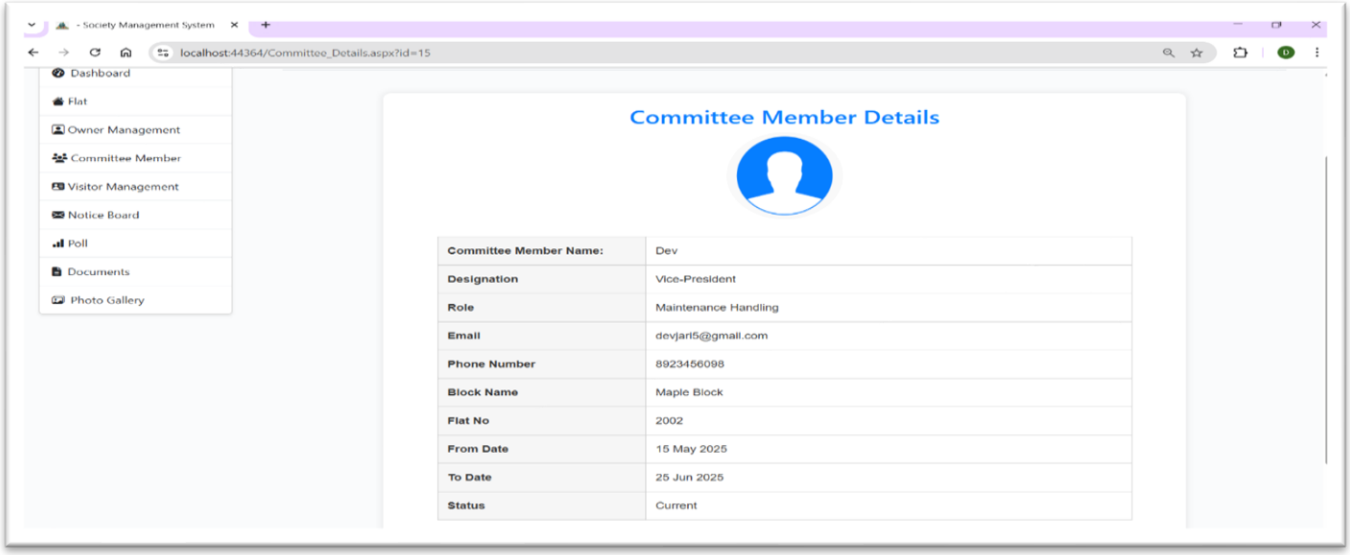



This page displays **active committee members** in a **grid view** with details like **name, designation, contact**, and **role**.

Users can **click any row** to view **more details**, making it easier and faster to access member info without a separate **"View" button**.

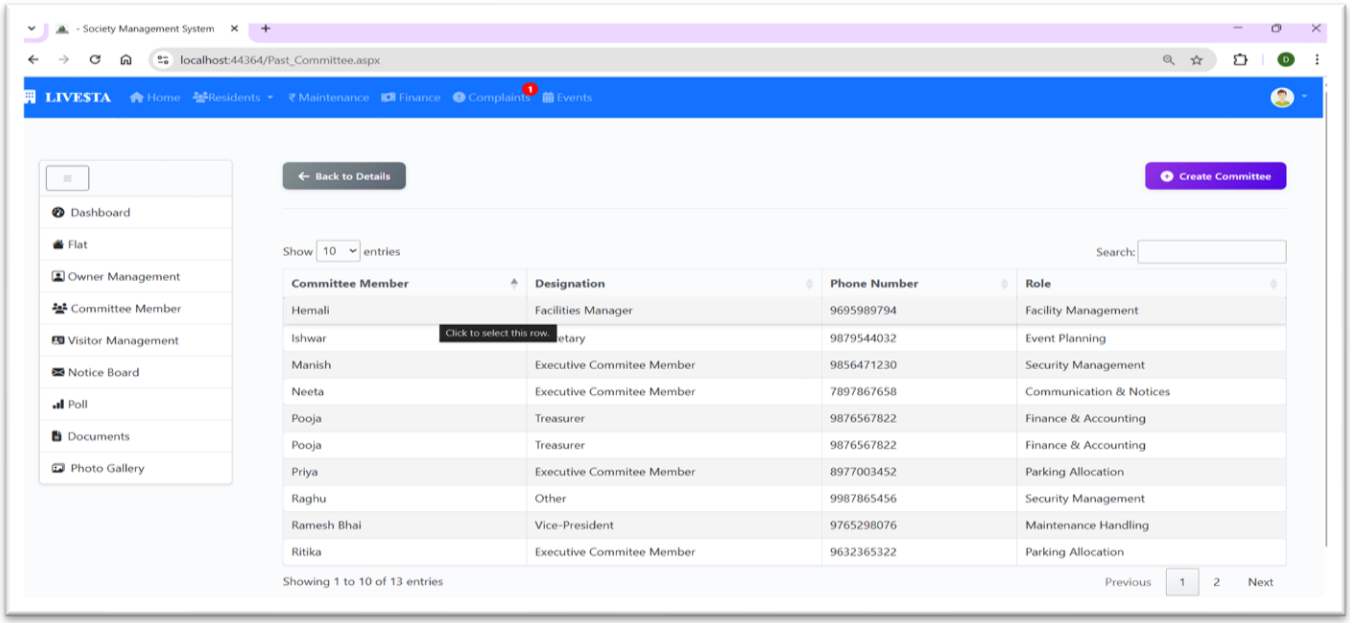
## 12.Committee Member Details




When a user **clicks a row** in the committee member list, this page opens to show **detailed information** about the selected **committee member**.

It displays the member's **name, designation, role, contact details, block and flat number**, along with their **active duration and status**.

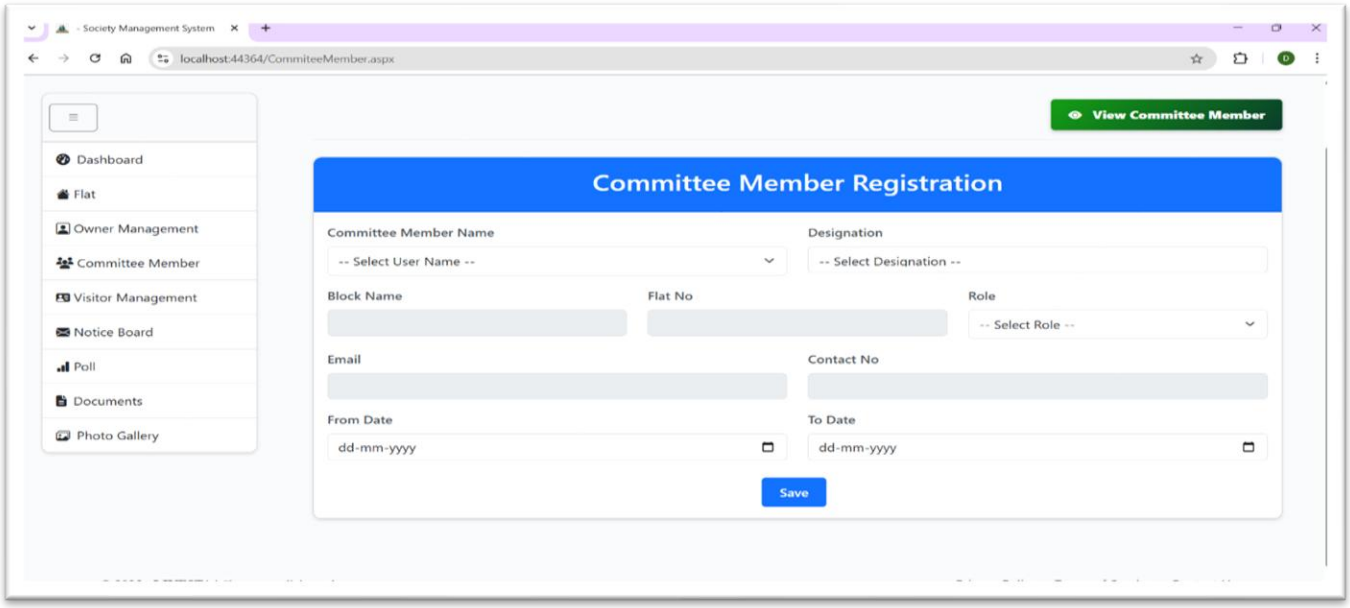
## 13. View Past Committee Members




When the user clicks **"Past Committee"**, this page shows a list of **previous committee members** in a **grid view**. Each row contains their **name, designation, phone number**, and **role**.

Users can **click on any row** to view the **detailed profile** of that past committee member, similar to active members. This helps in **tracking historical records** and understanding **past responsibilities**.

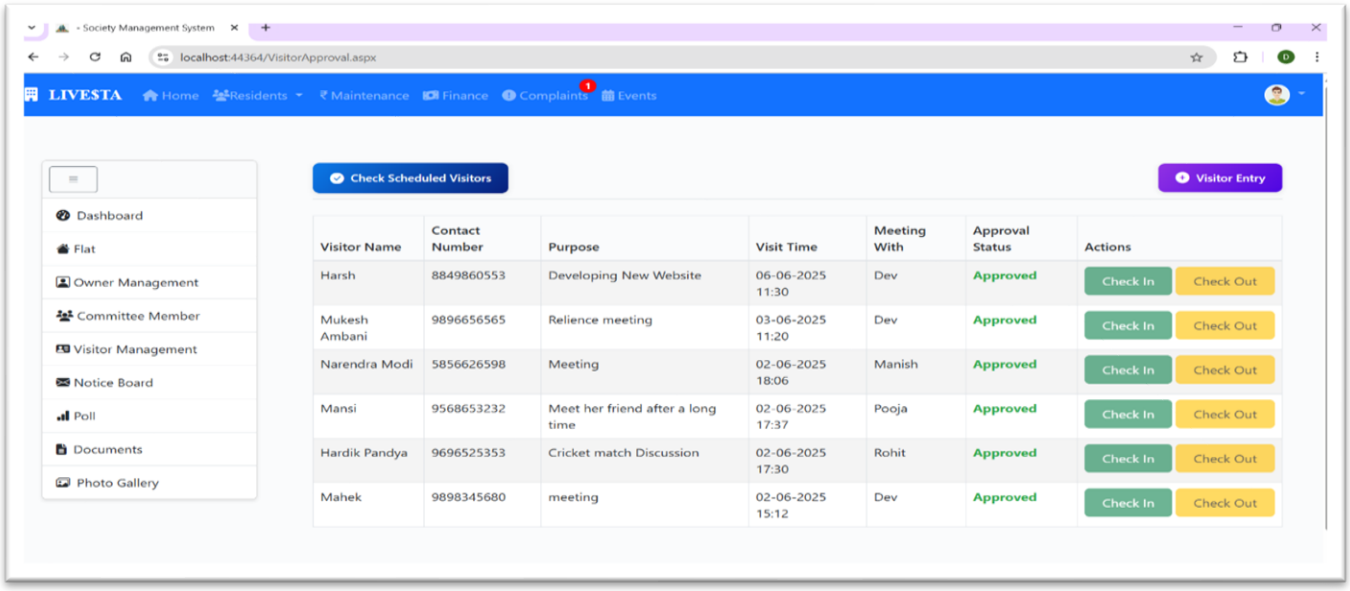
## 14. Register New Committee Member




On clicking **"Create Committee"**, a form opens. When a **user is selected** from the first dropdown, their **Block Name, Flat No, Email**, and **Contact No** are **auto-filled**.

The admin then selects **Designation, Role**, and **dates**, and clicks **Save** to register the member.

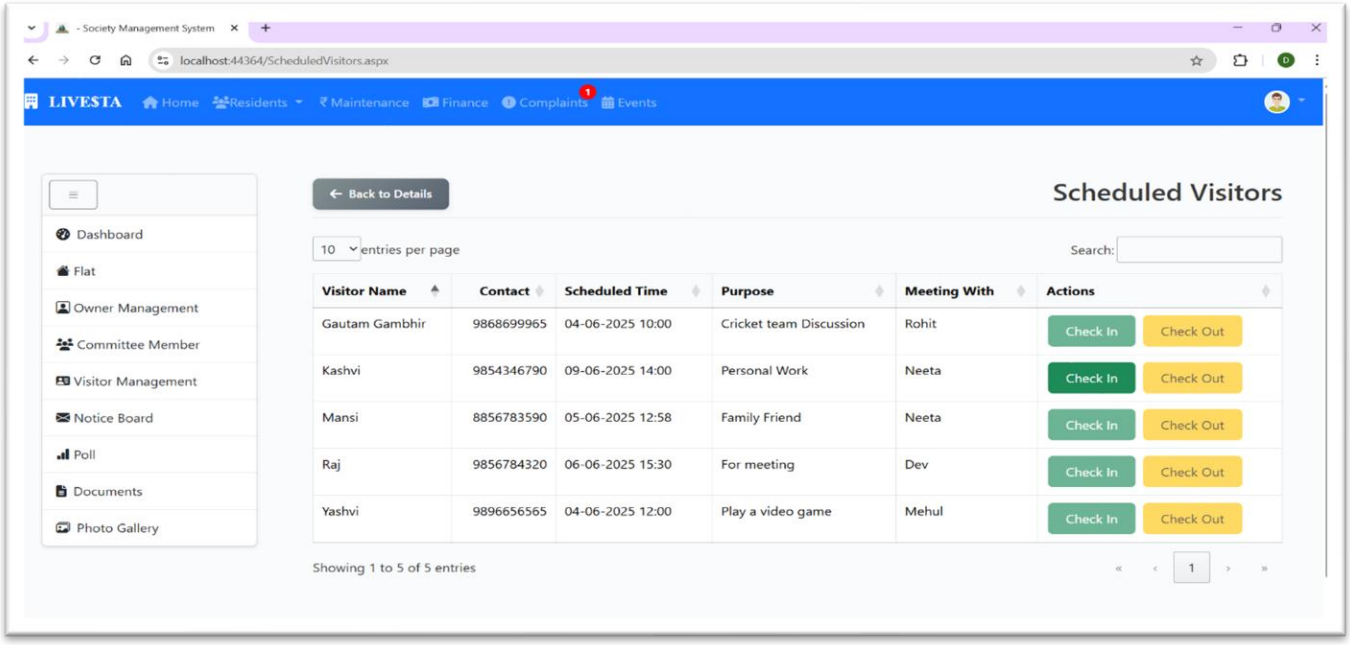
## 15.Visitor Approval By Staff




On clicking **Visitor Management**, all visitor entries are shown. By default, the visitor **status is "Rejected"**. If the visitor is linked to a valid **flat or owner**, their **status changes to "Approved"**.

Staff can then click **Check In** and **Check Out**, and the respective **timestamps are saved** in the **database**.

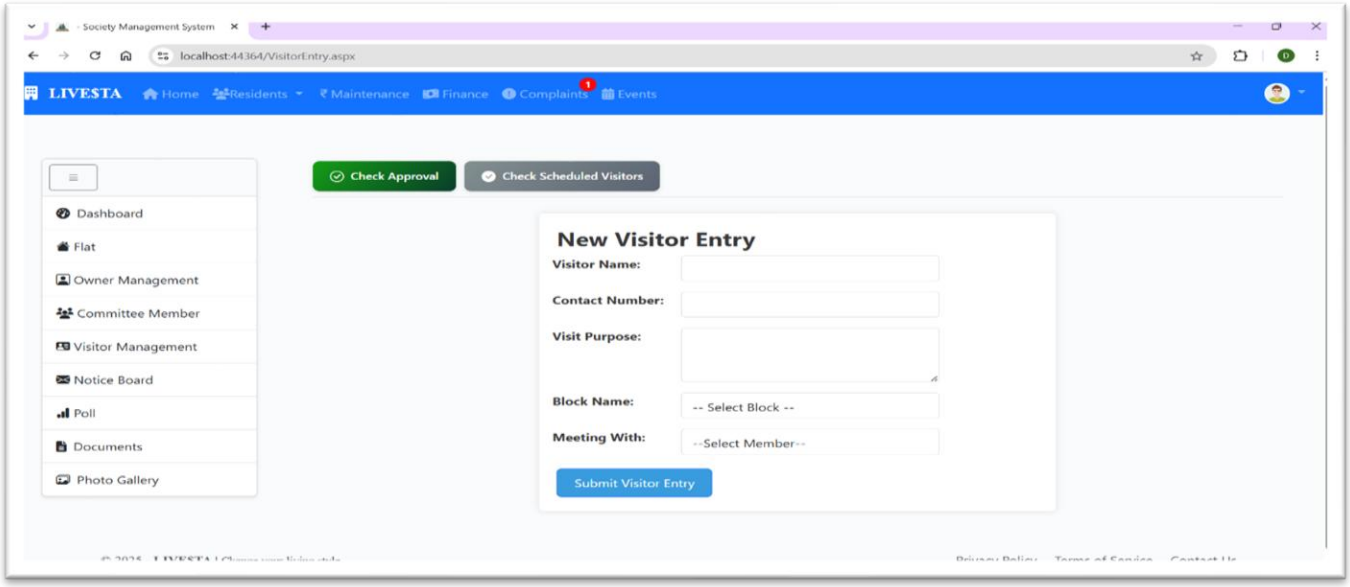
## 16. Scheduled Visitor Management




When you click **Scheduled Visitors**, this page is shown. If a **scheduled visitor arrives**, **no approval is needed** because the visit was **pre-approved** by an **owner or their family member**.

The staff can directly press **Check In** and **Check Out**, and the system logs the visit times accordingly.

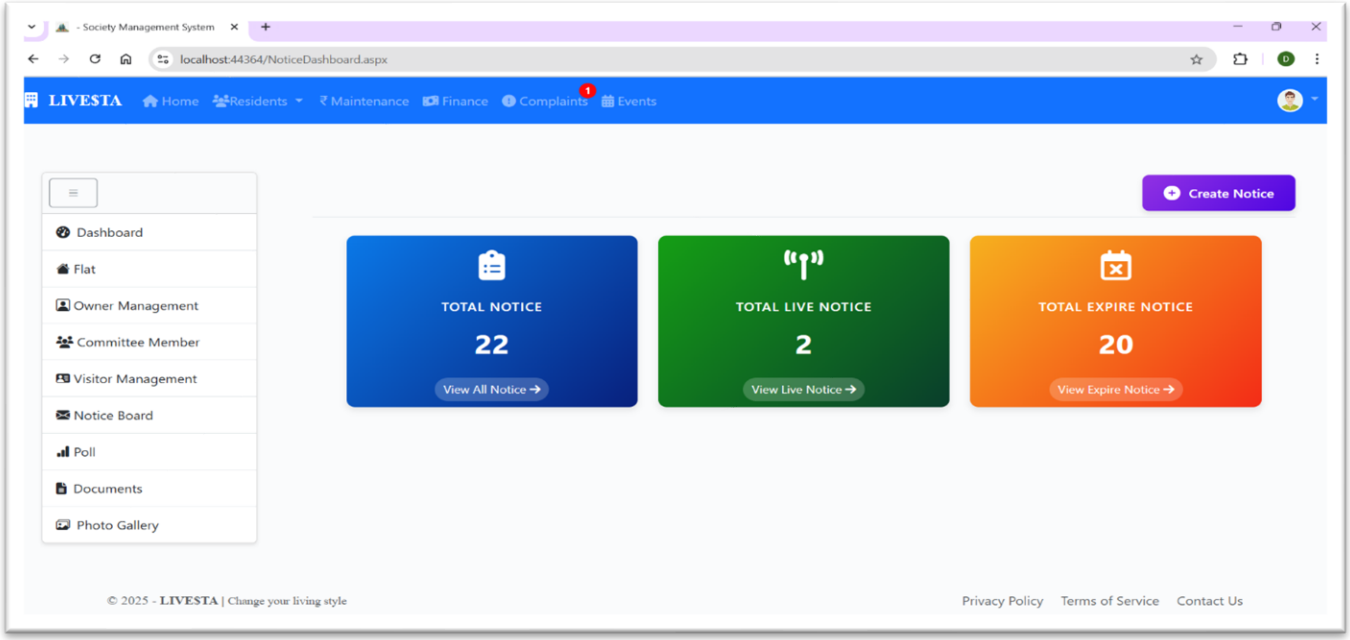
## 17. New Visitor Entry




This page is used to log **every visitor who enters the society**. After submission:

- If the visitor is **pre-approved or scheduled**, entry is smoother.
- If not, it requires **approval** before access is granted.

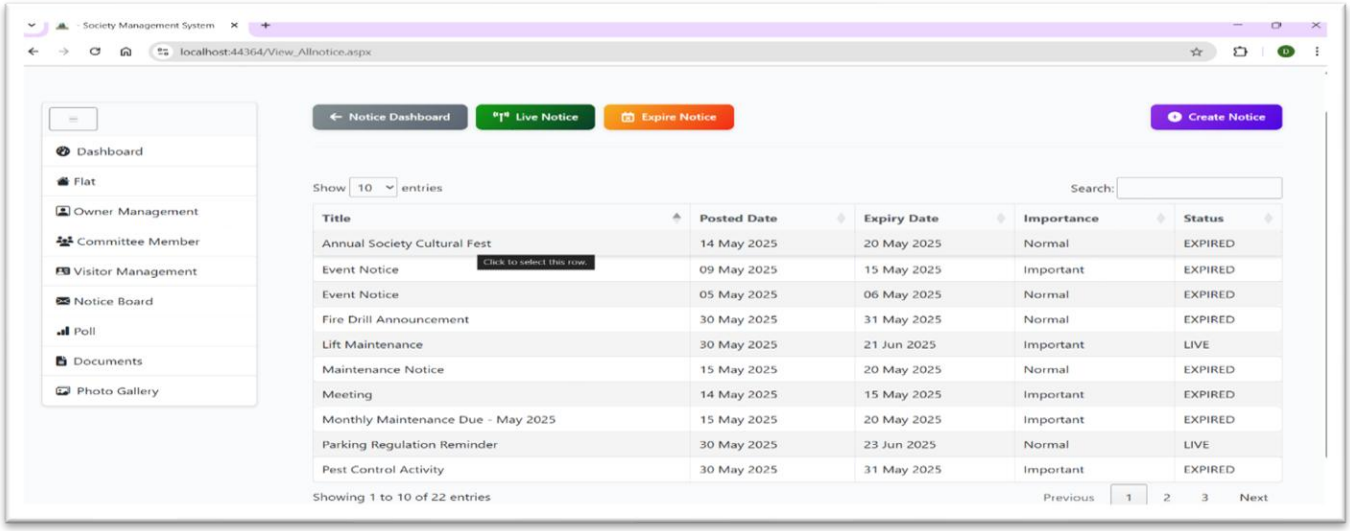
## 18. Notice Dashboard




This dashboard gives a clear snapshot of:

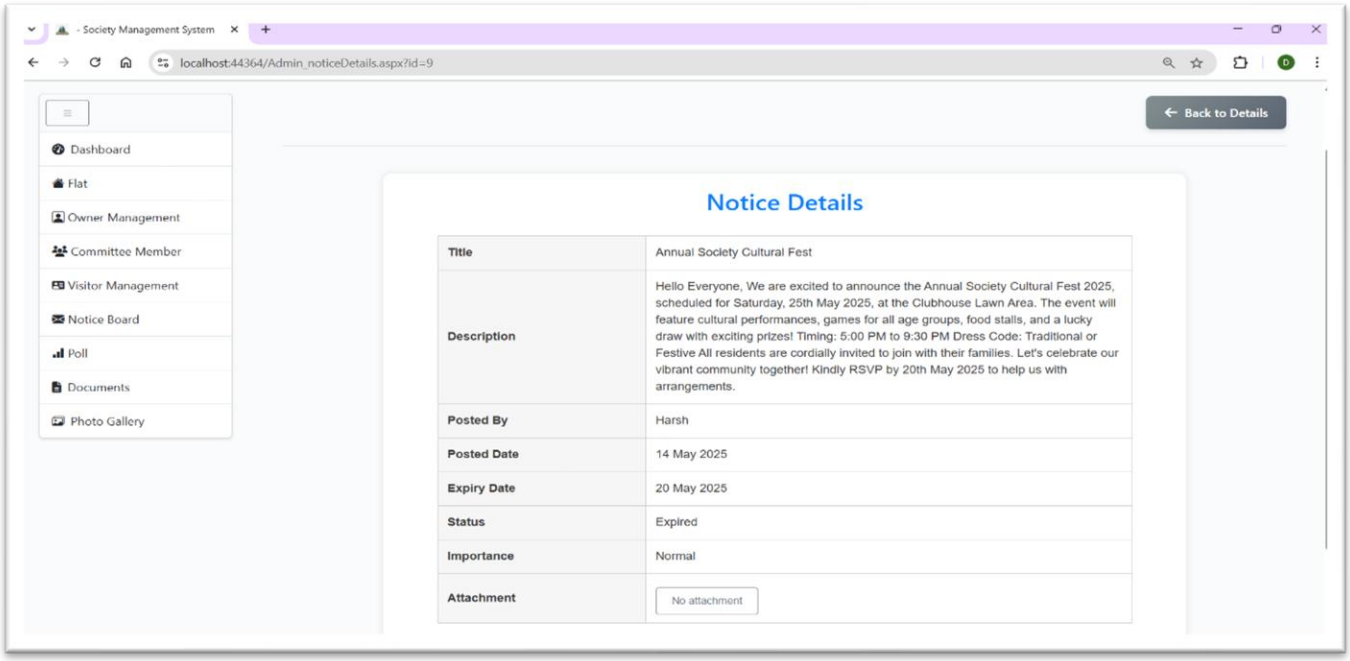
- **Total Notices Created**
- **Live Notices (currently active)**
- **Expired Notices**

## 19. All Notices – View & Manage



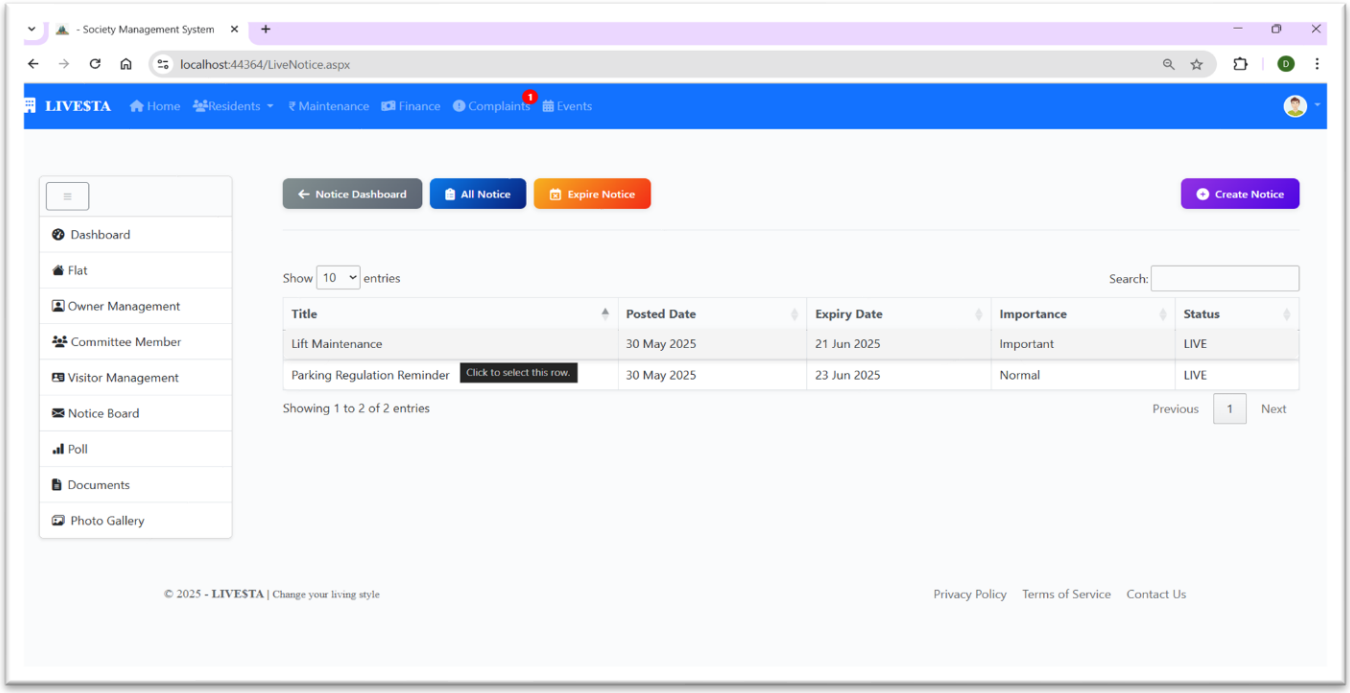

- Displays a list of all **notices**, including both **LIVE** and **EXPIRED** statuses.
- **Row-click enabled**: Clicking any row gives more detailed information.
- **Filter/Search** option at the top-right.
- Pagination to browse notices in batches (10 per page).

## 20. Notice Details



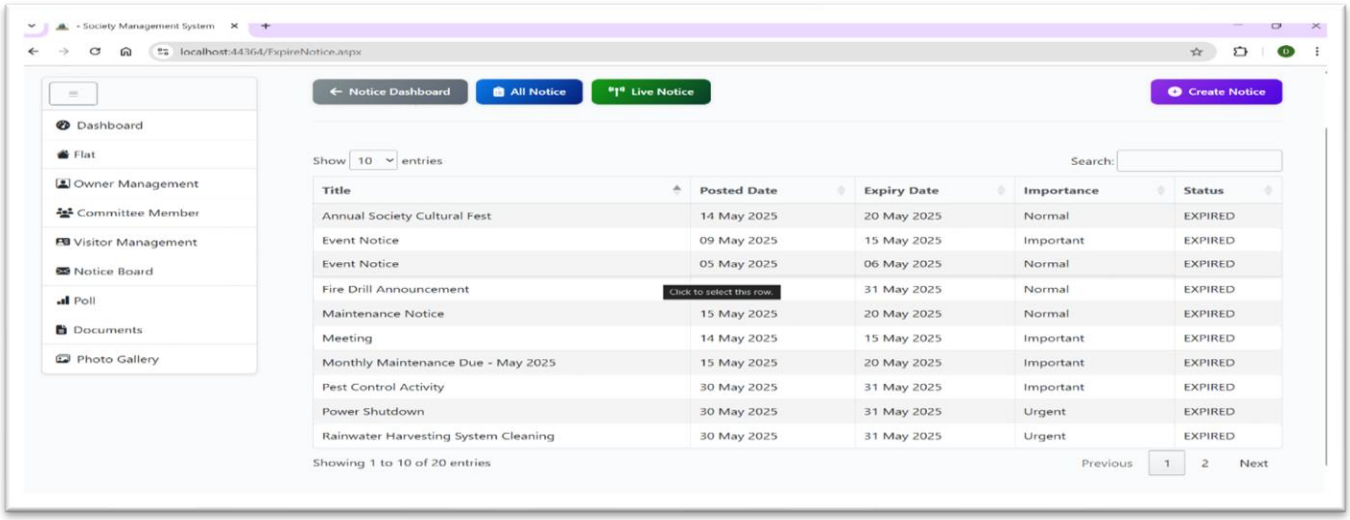

Displays full details of the selected notice when a row is clicked from the **"All Notices"** page.

## 21. Live Notices




- Shows **only notices with status "LIVE"**.
- Includes a search box and pagination for easy navigation.
- **Clicking on a row** reveals full notice details (description, attachments, etc.) on a separate page.

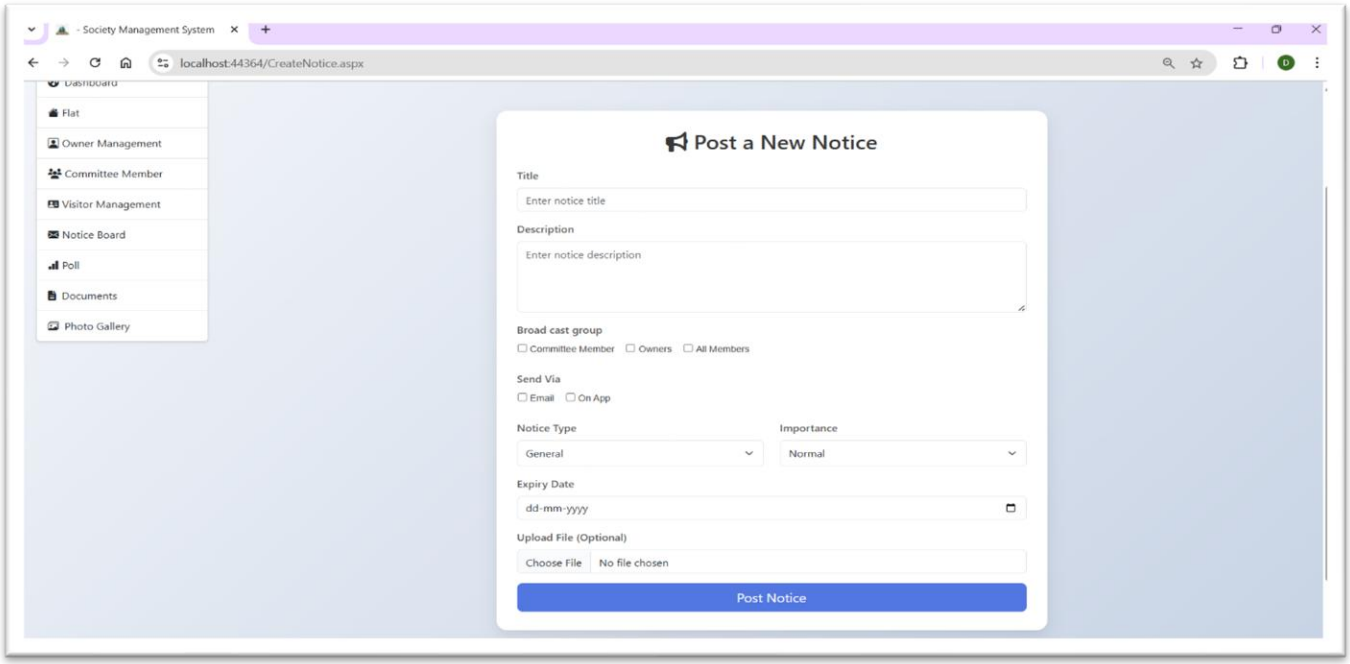
## 22. Expired Notices




This page displays all **notices that have passed their expiry date**. It allows society administrators and residents to refer back to older or previously active notices for documentation, records, or reference.

- Only shows notices with **Status = "EXPIRED"**
- **Search bar** for filtering
- **Pagination** to navigate across multiple entries
- **Clicking on a row** opens a detailed view of the selected notice (with full description, posted by, and attachments).

## 23. Post a New Notice



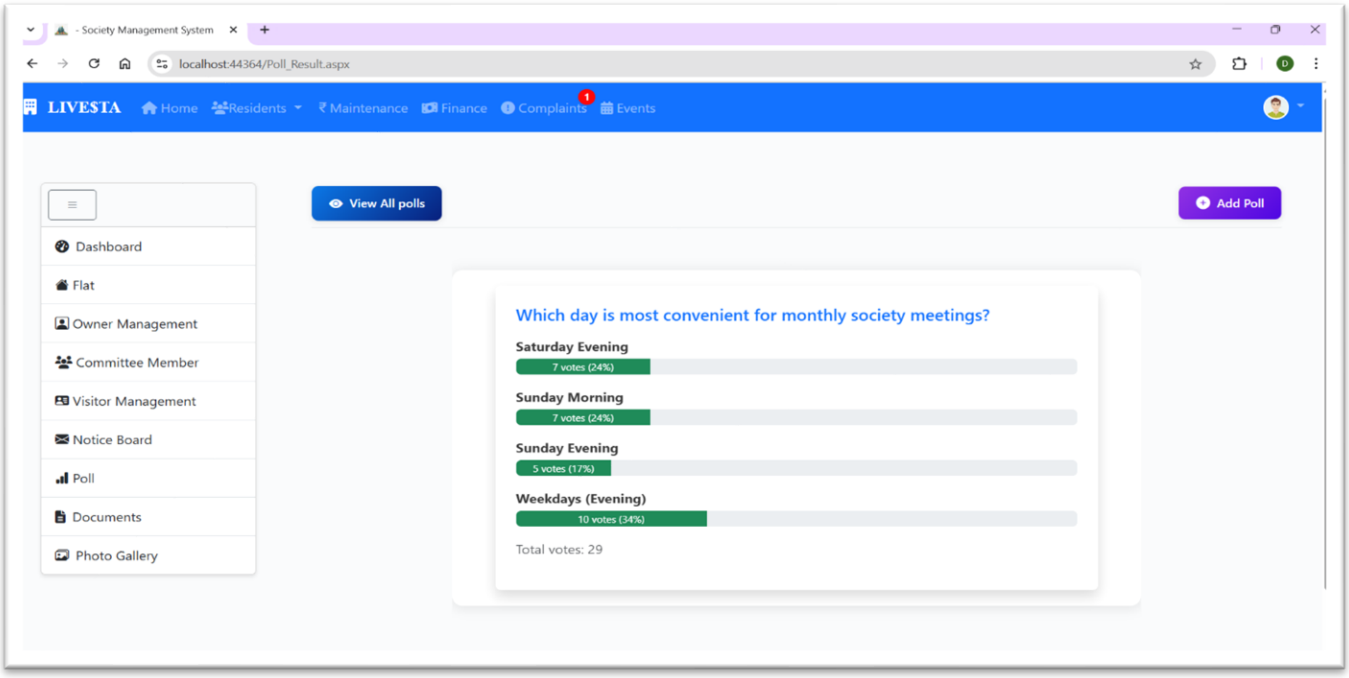

This page allows authorized users to **create and publish new notices** in the Society Management System. Notices can be targeted, scheduled, and sent via different communication channels.

| Field | Description |
| --- | --- |
| **Title** | Enter the headline/title of the notice (e.g., "Water Supply Interruption"). |
| **Description** | Provide detailed information about the notice content. |
| **Broad Cast Group** | Select the group you want to send the notice to: -<br>**Committee Members only - Owners only - Family Members only** |
| **Send Via** | Choose the channel to deliver the notice: - **Email - On App**<br>*Notices will only be delivered to the selected group through the selected channels.* |
| **Notice Type** | Select the type of notice (e.g., General, Emergency, Event, Maintenance). |
| **Importance** | Choose the urgency level: - Normal - Important - Urgent |
| **Expiry Date** | Select the date the notice should expire. After this date, it will automatically move to **Expired Notices**. |
| **Upload File (Optional)** | Attach relevant documents (PDFs, images, etc.) if needed. |
| **Post Notice** | Submit the notice and send it to the selected audience. |

## Key Features:

- Send targeted messages to **specific user groups**
- Deliver via **Email** or **App notifications**
- Automatically moves to **Expired Notices** after expiry
- Optional file upload for better communication

## 24. Poll Result Page

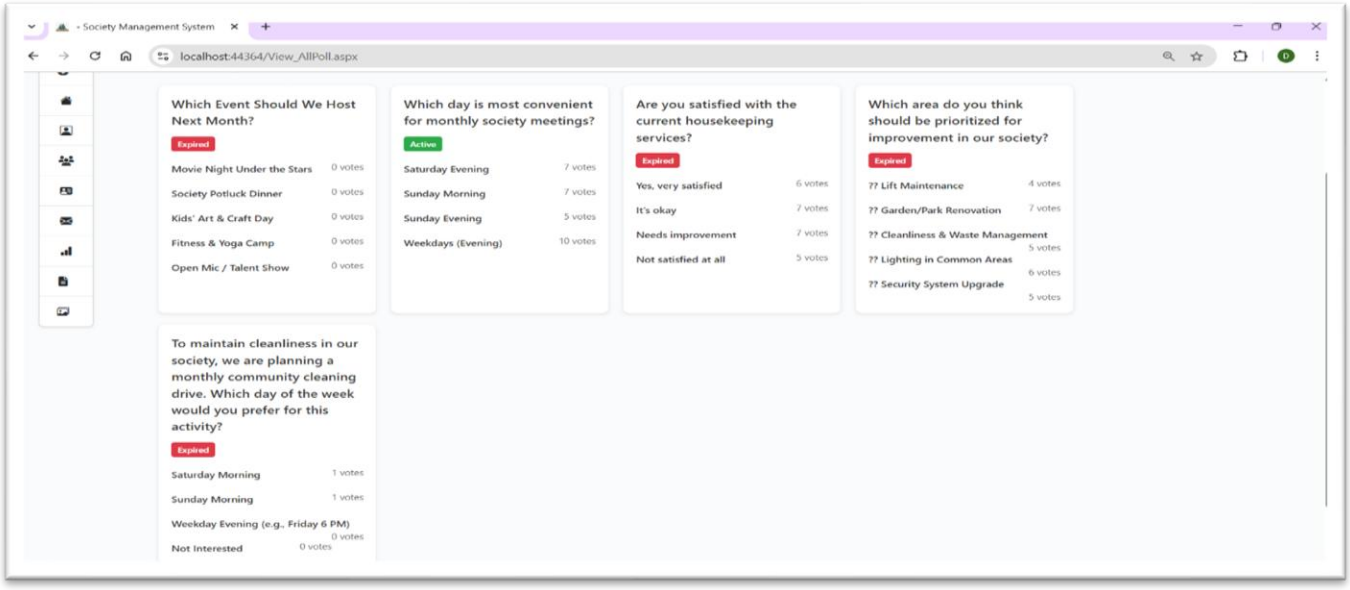



This page displays the **results of polls conducted** within the society. It provides a visual summary of how residents have responded to specific questions.

Only **Admins** or **authorized committee members** can see the detailed poll results.

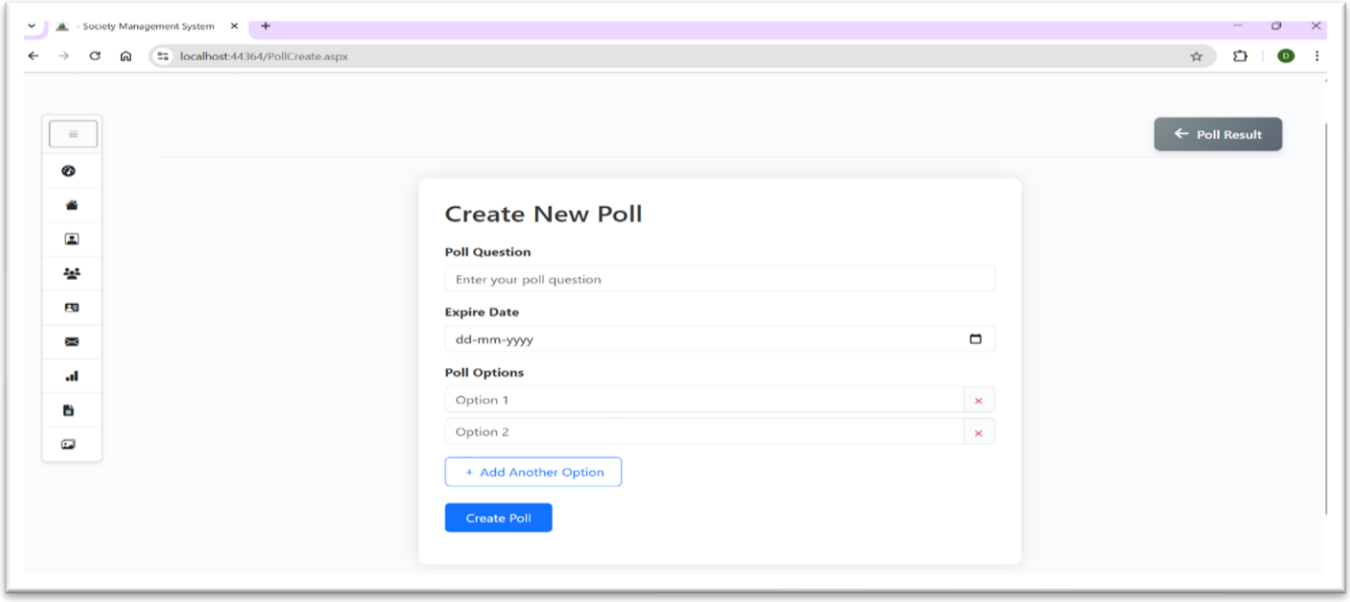
Useful for **decision-making** based on resident preferences.

## 25. View All Polls Page




This page allows the admin to see **all created polls** — both **Live** and **Expired** — along with their **responses and status**.

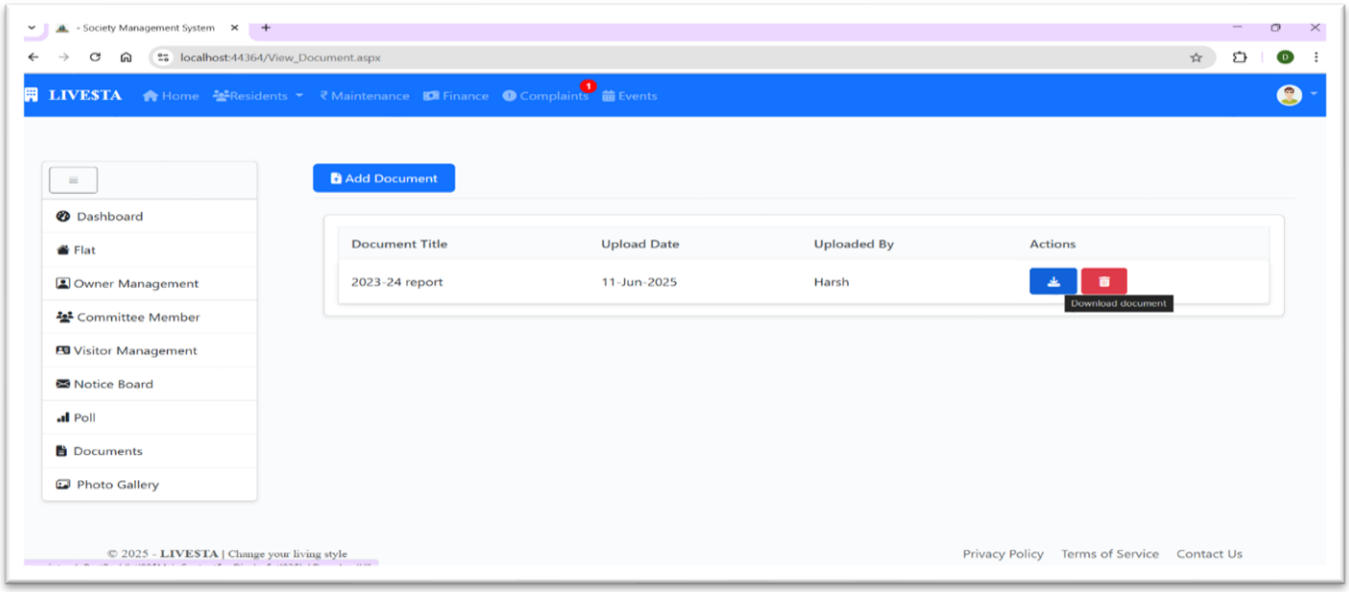
## 26. Create New Poll Page




This page allows the **admin** to create and launch a new poll that can be answered by residents.

**Poll option** At least two options are required. You can:
• Add more by clicking **Add Another Option**
• Remove options using the red button

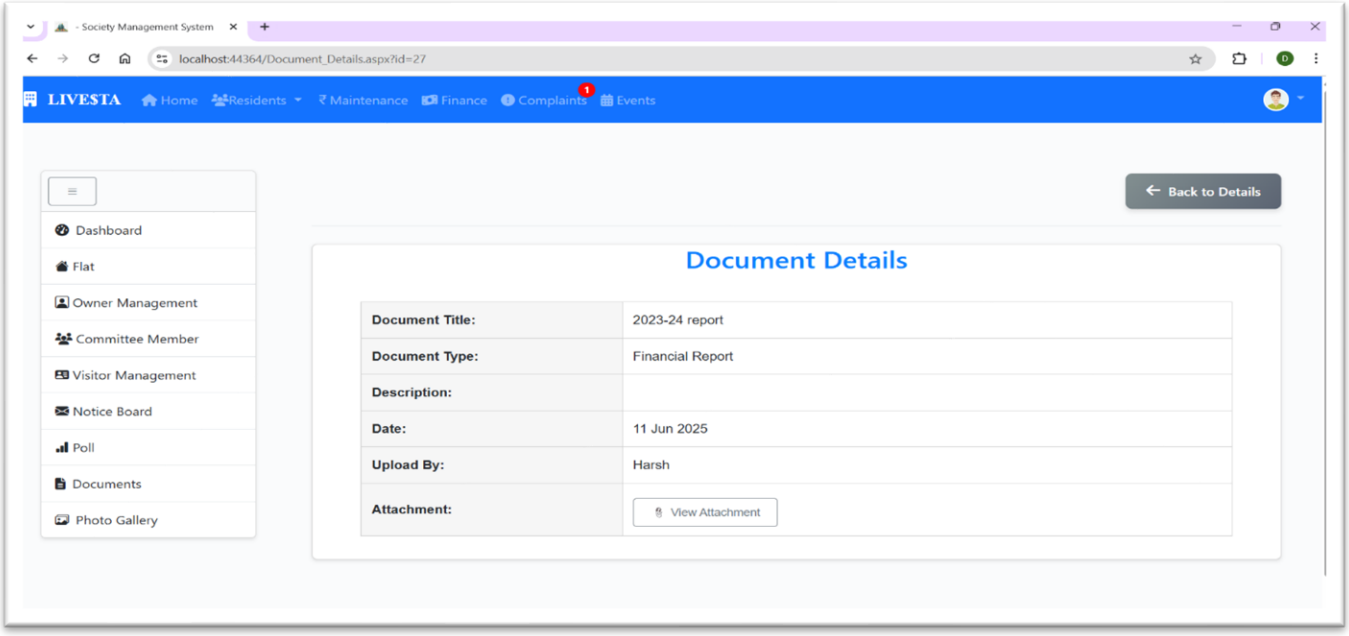
## 27. Document Management Page Overview




This page allows residents, committee members, or admins to **manage society-related documents** such as reports, notices, or circulars.

**Clicking on a row** shows **more details** about the selected document (e.g., file type, size, or description if implemented).

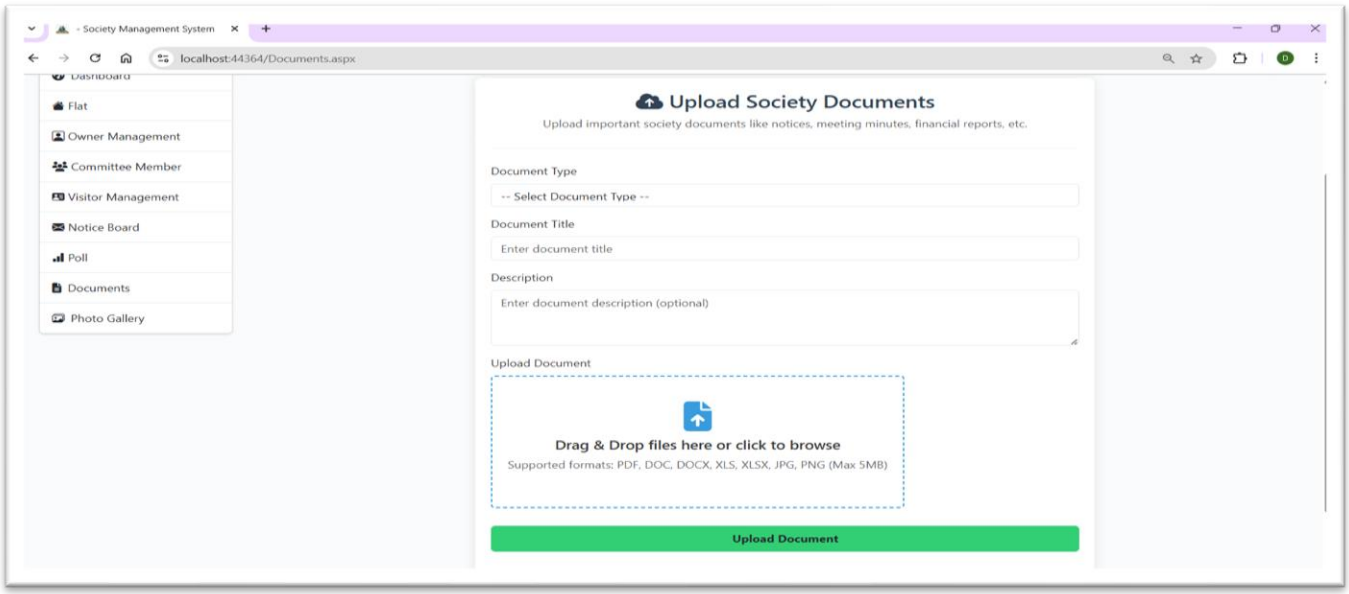
## 28. Document Details Page




This page appears when a user **clicks on a document row** from the Document Management page.

A button to **View Attachment**, which opens/downloads the file

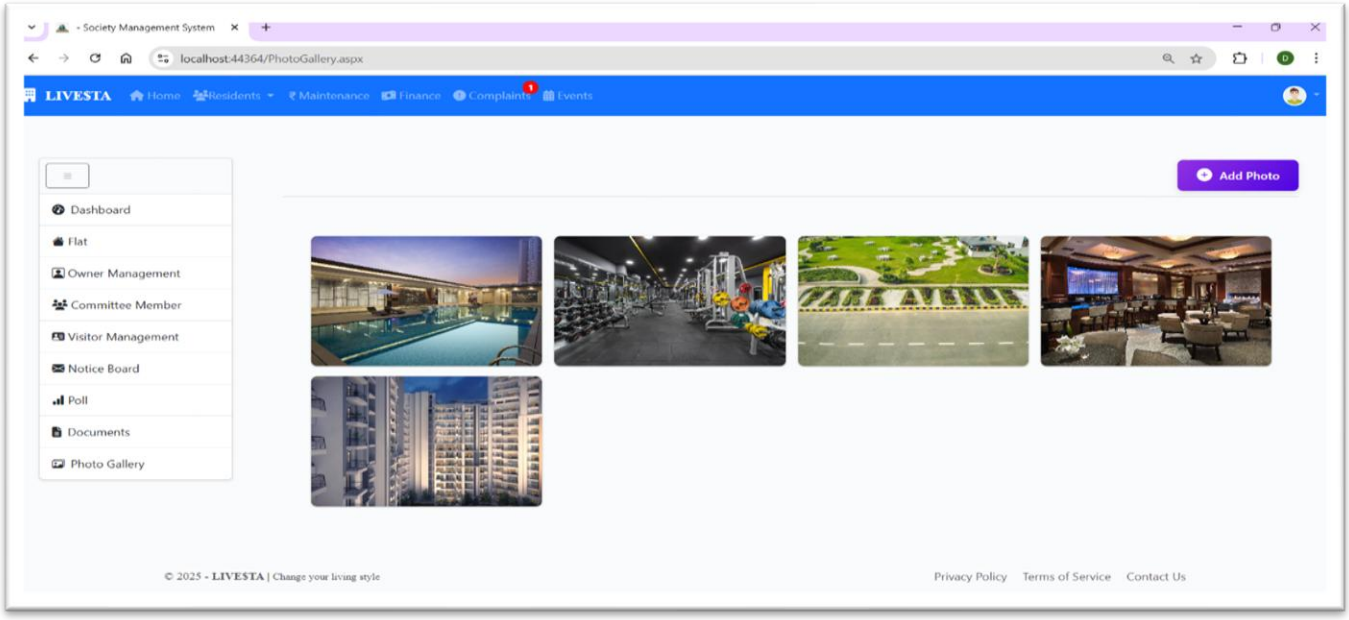
## 29. Upload Society Documents Page




This page allows users to upload important documents related to the society, such as:

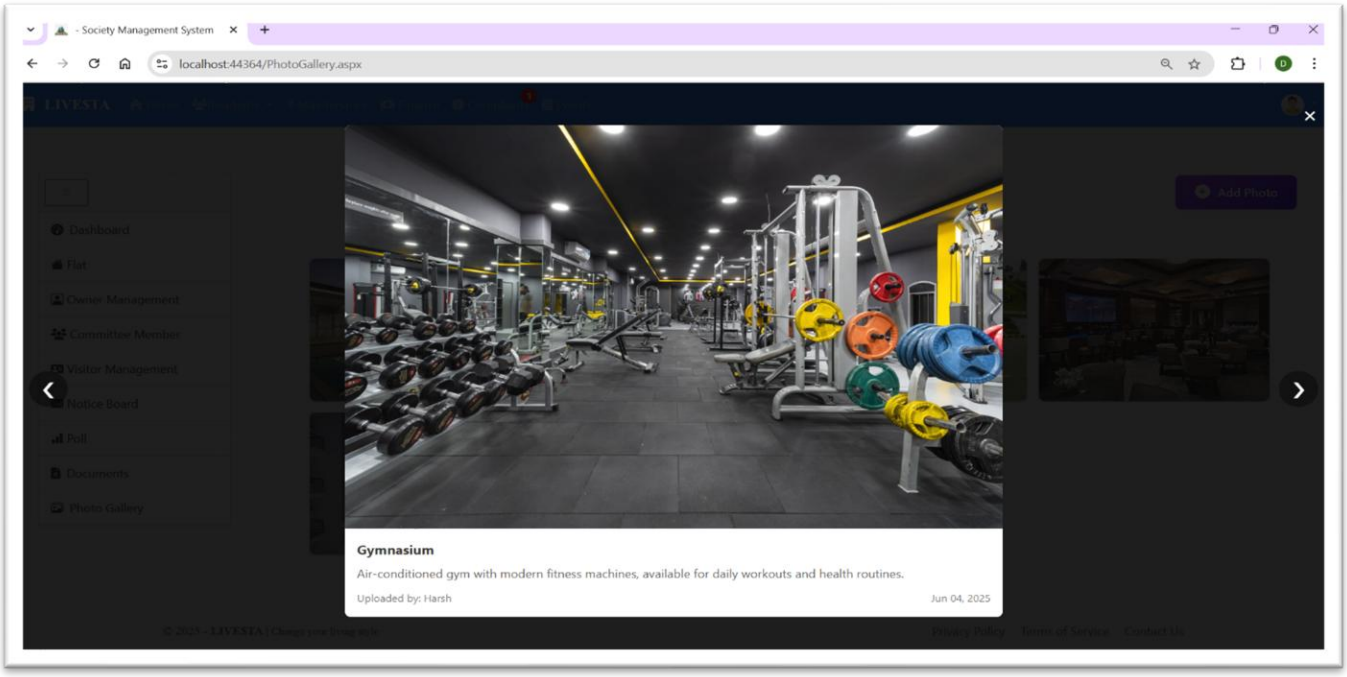
- Meeting minutes
- Financial reports
- Notices
- Announcements

## 30. Photo Gallery Page



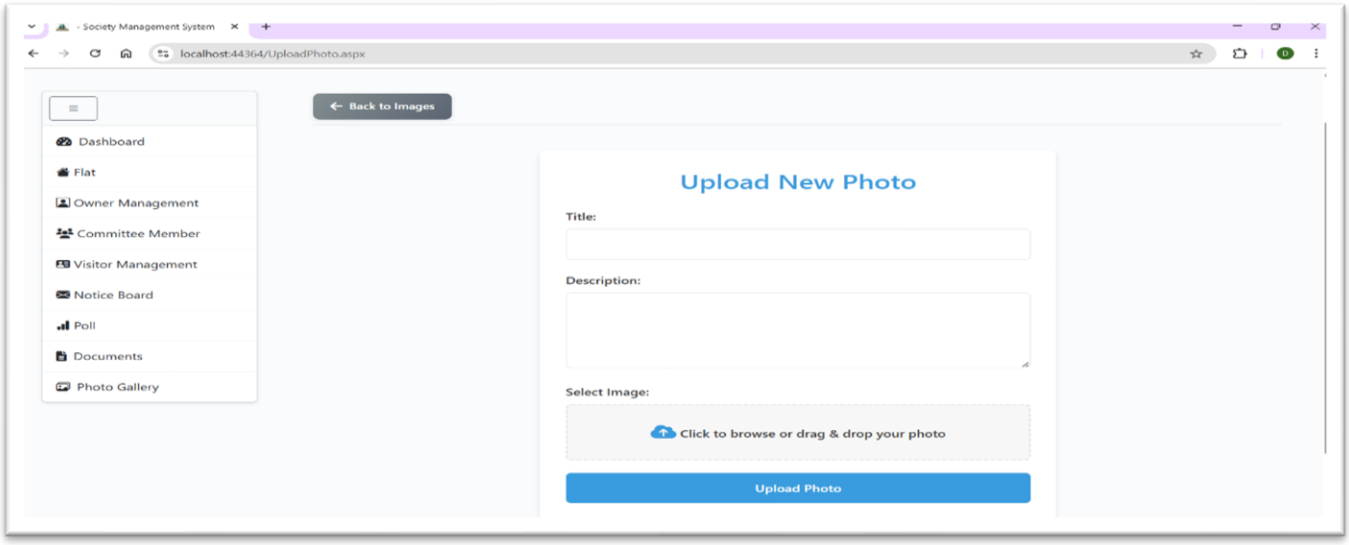

This page displays visual content related to society amenities, lifestyle, or events.

## 31. Photo Description Modal



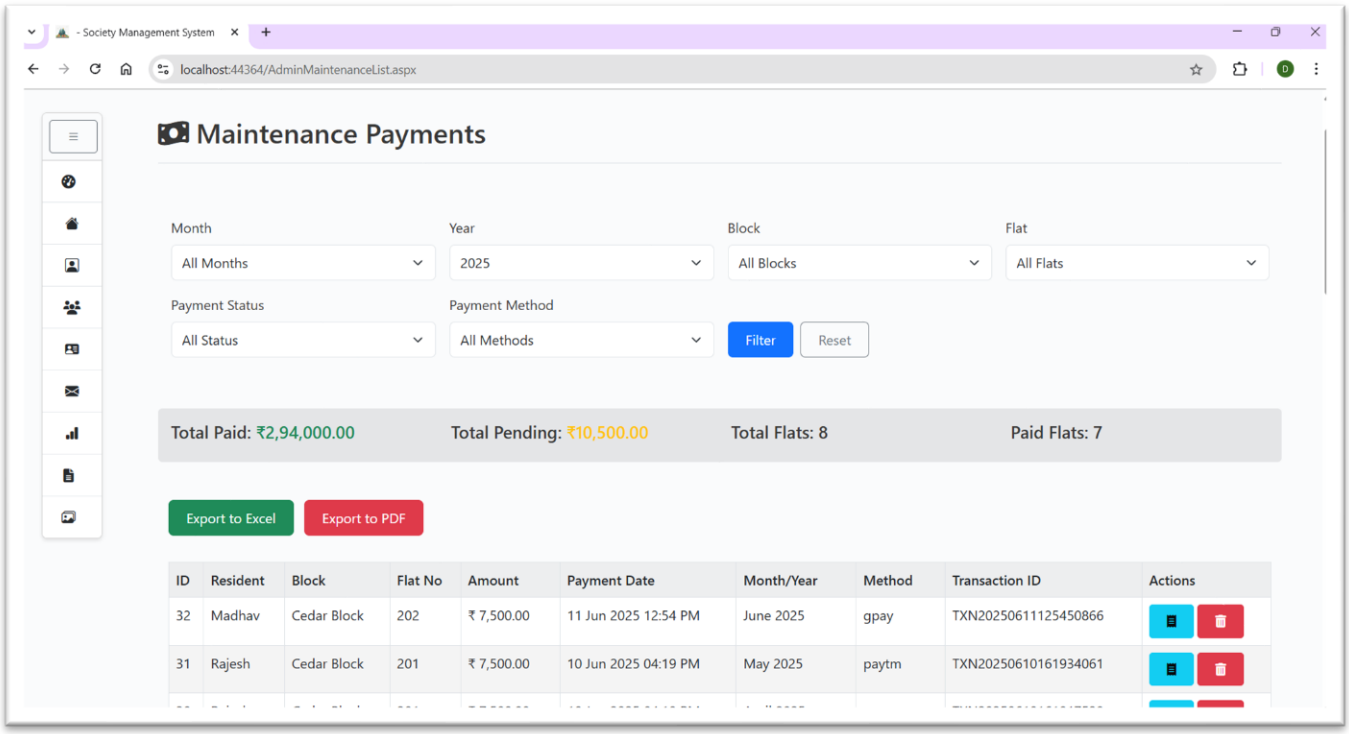

To show a larger view of a clicked image along with its title, description, upload date, and uploader name in a modal popup.

## 32. Upload New Photo



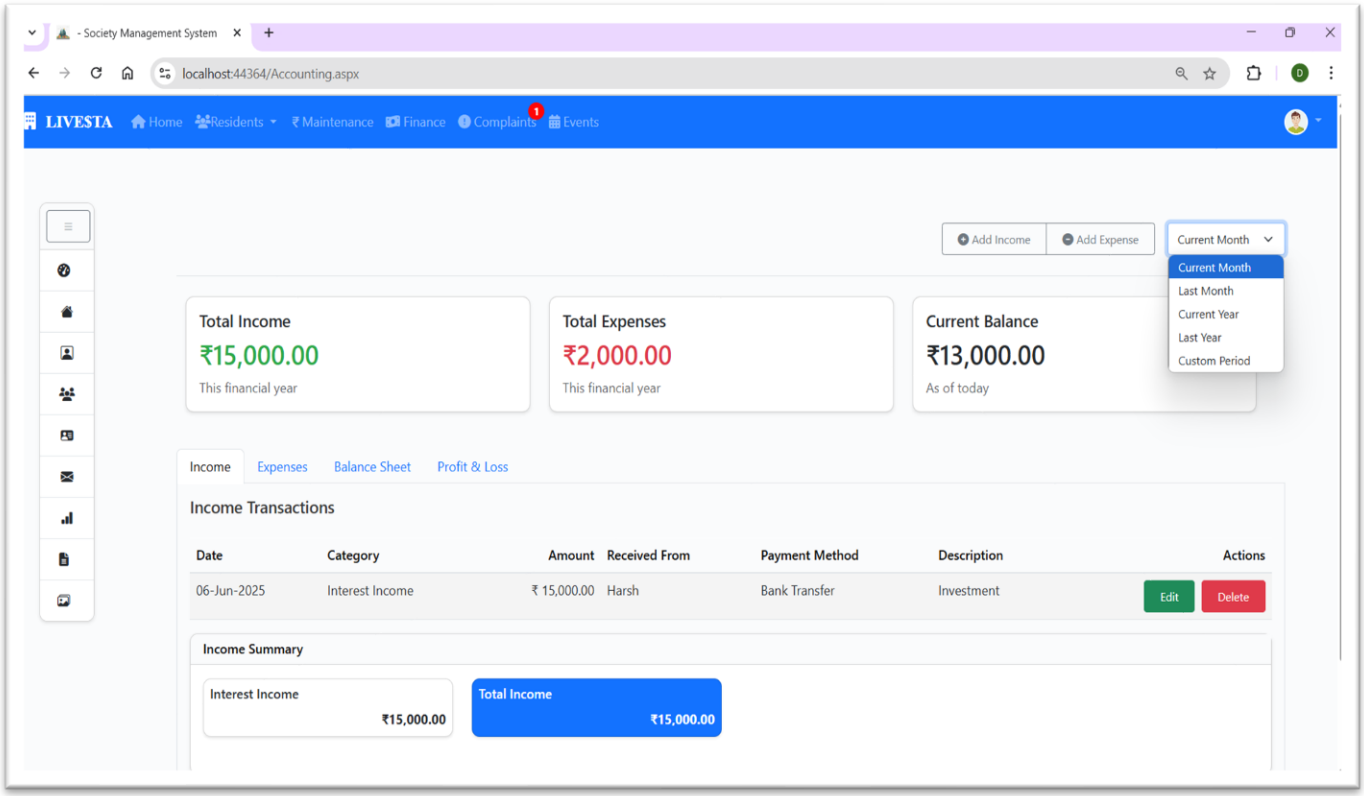

Allow users to upload a new image to the society's photo gallery with a title and description. This helps in documenting and showcasing society amenities or events visually.

## 33. Maintenance Payments




Display and manage the maintenance fee records of all society residents. Admin can filter the data by month, year, block, flat, status, and payment method. It shows the total amount paid and pending, and allows exporting the data to **Excel** or **PDF** for reporting and records. Admin can delete and generate receipt for maintenance.

## 34. Society Financial Accounting



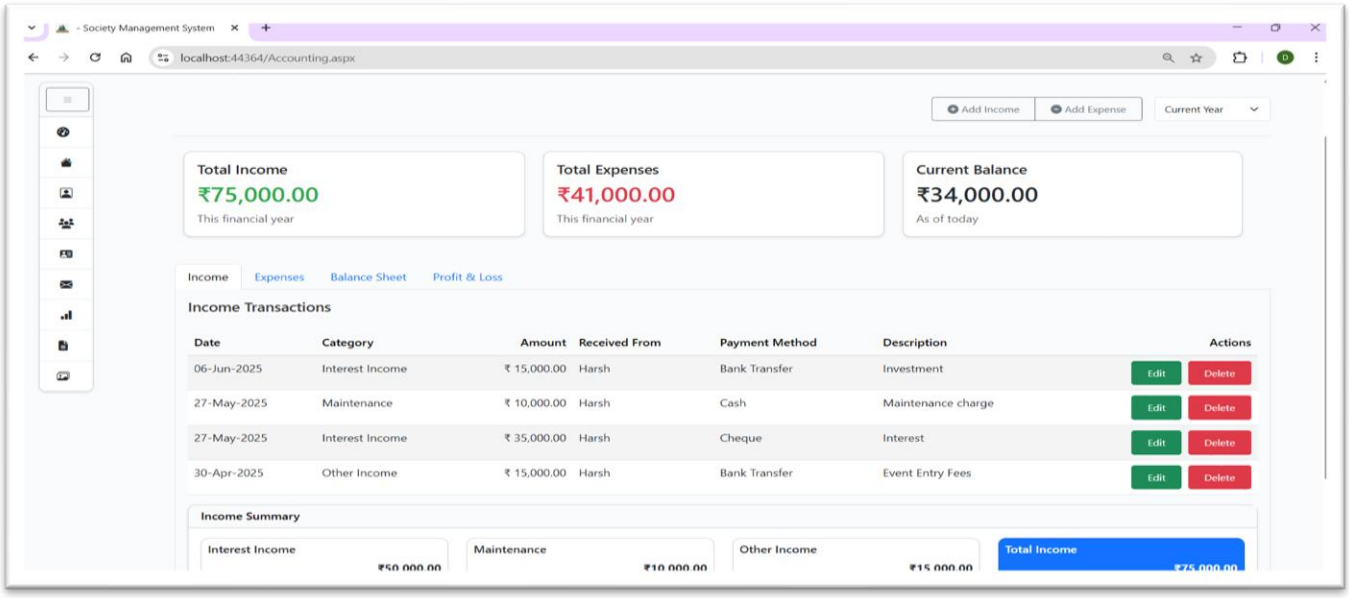

This module provides a comprehensive view and management interface for society income and expenses. It displays total income, total expenses, and the resulting balance for the selected time period. Users can toggle between various tabs like **Income**, **Expenses**, **Balance Sheet**, and **Profit & Loss** to get detailed financial reports.

Admins can:

- **Add income and expenses** with category, amount, source, payment method, and description.
- **View transaction history** in categorized tables.
- **Filter financial data** using the dropdown on the top-right by:
  - **Current Month**
  - **Last Month**
  - **Current Year**
  - **Last Year**
  - **Custom Period** This helps in generating reports or analysing finances over specific durations.

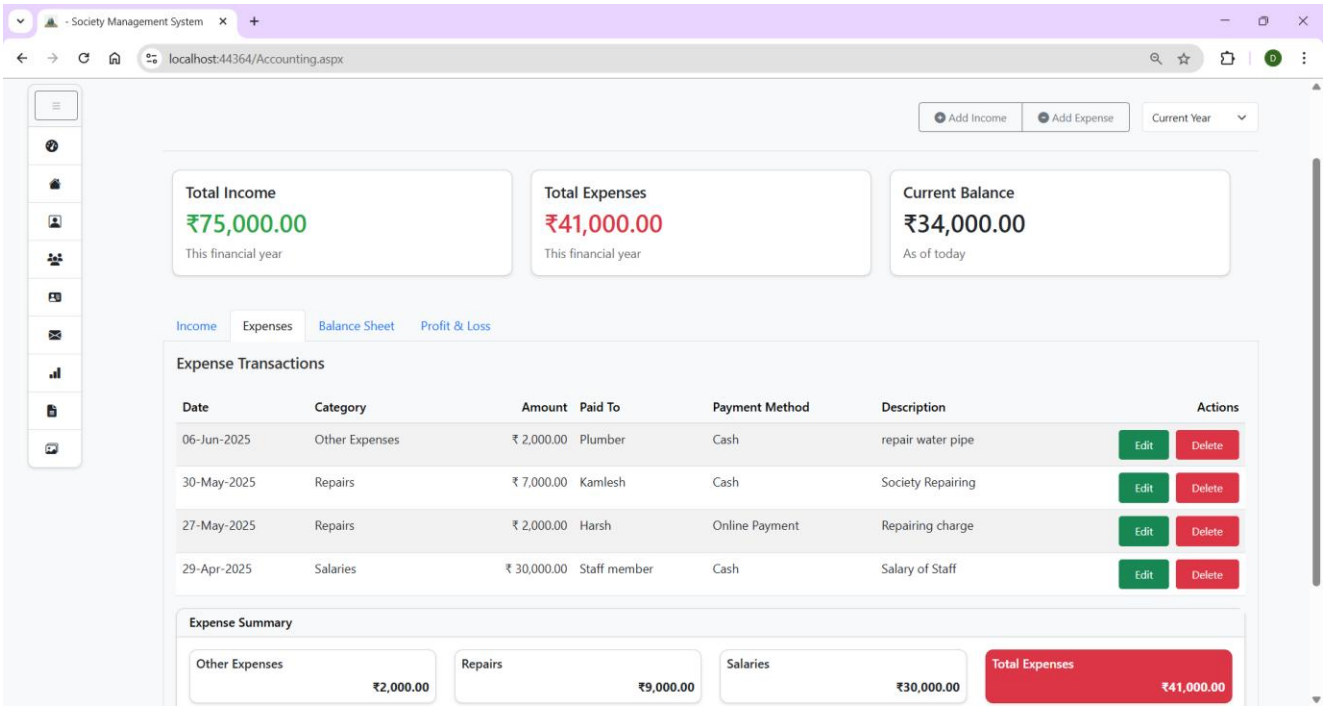
The interface also summarizes data like **Income Summary**, and allows editing or deleting transactions.

## 35. Income Management with Yearly Filter



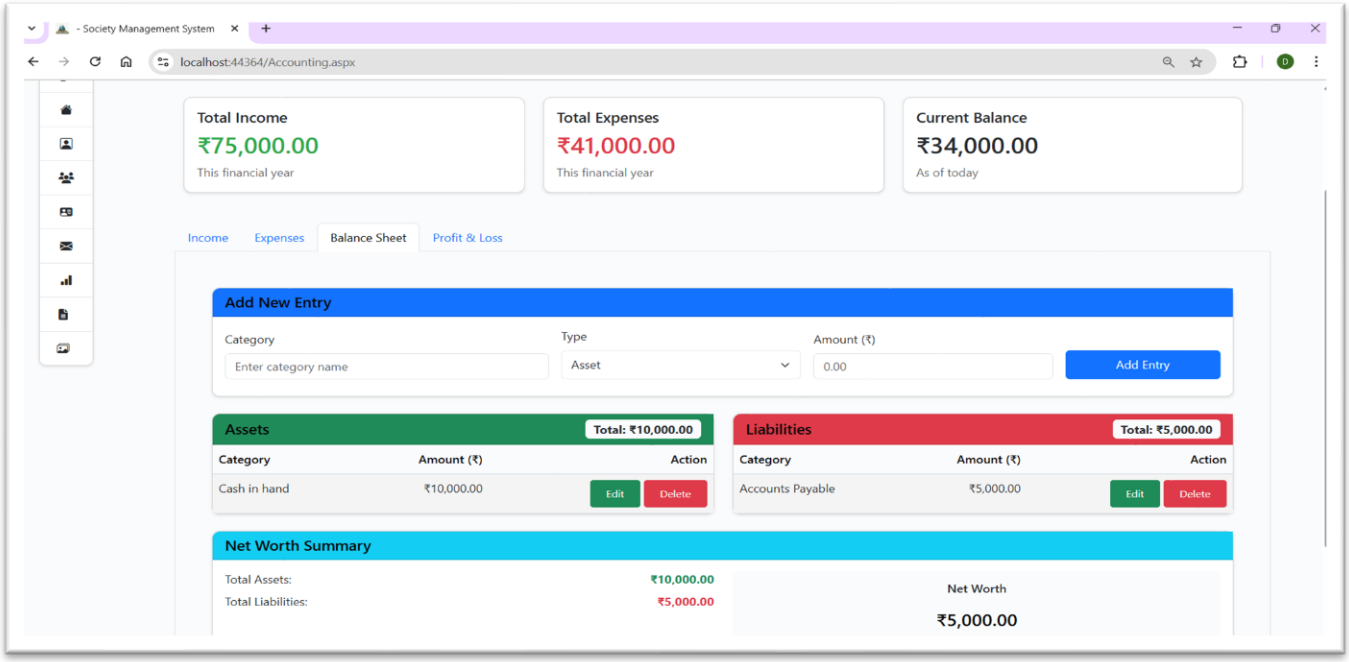

Displays all **income transactions** recorded from the **start of the current financial year (2025)** up to the present date.

## 36. Expense Management with Yearly Filter



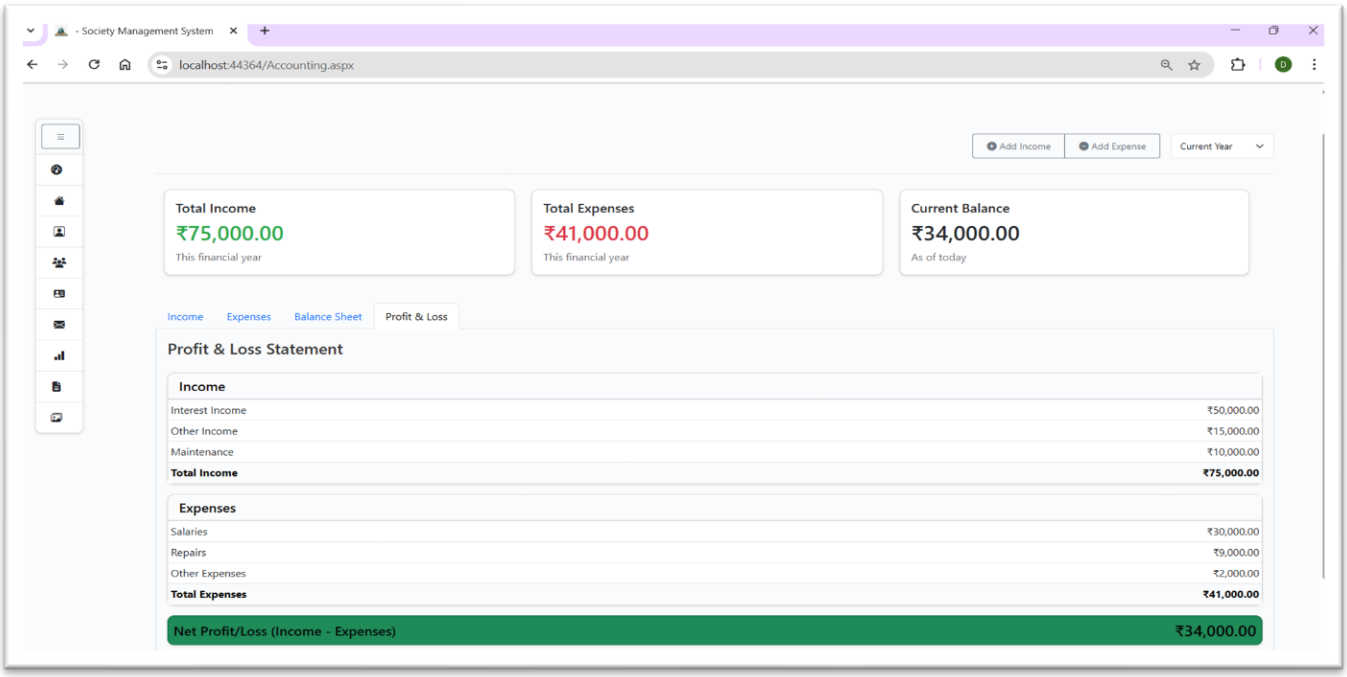

Displays all **Expense transactions** recorded from the **start of the current financial year (2025)** up to the present date.

## 37. Balance Sheet – Asset and Liability Management with Filtering



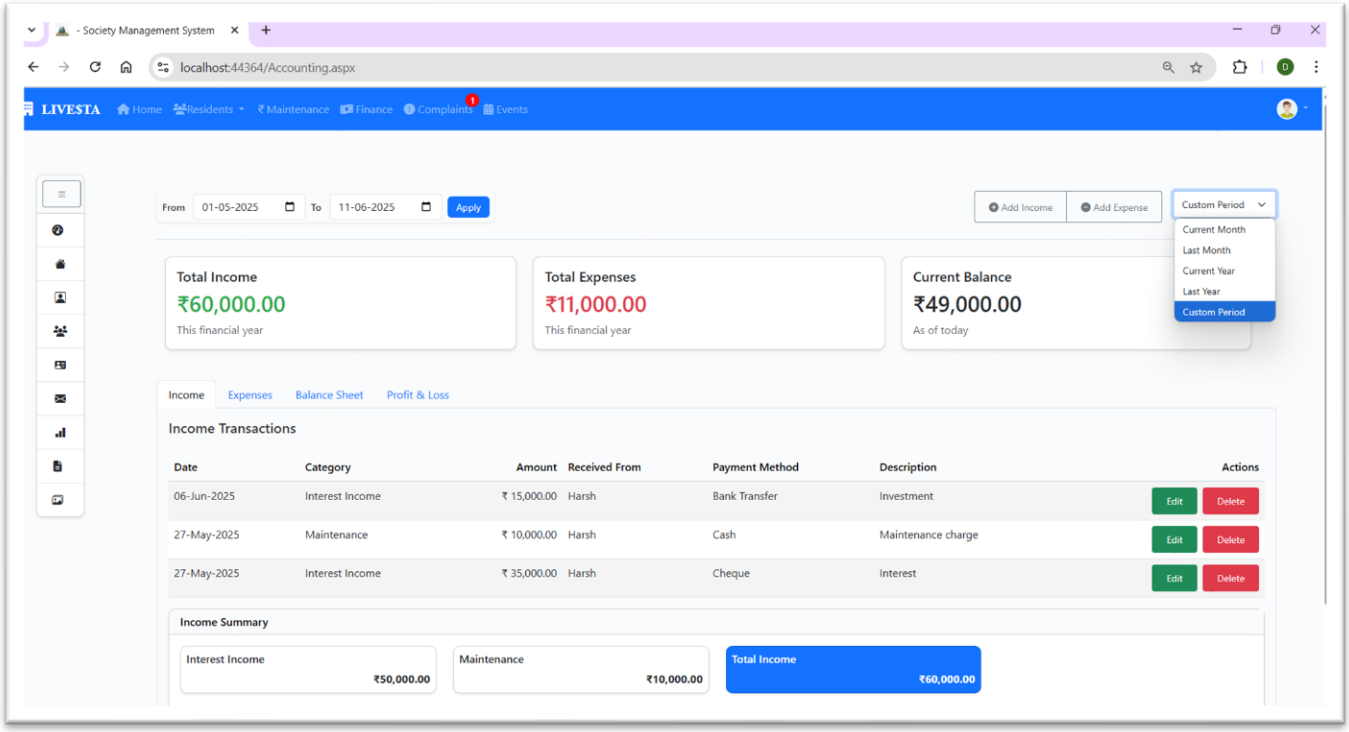

The **Balance Sheet** section of the accounting module provides a clear and interactive interface for managing a society's financial health by tracking its **Assets**, **Liabilities**, and **Net Worth**.

## 38. Profit & Loss Statement – Financial Performance Overview



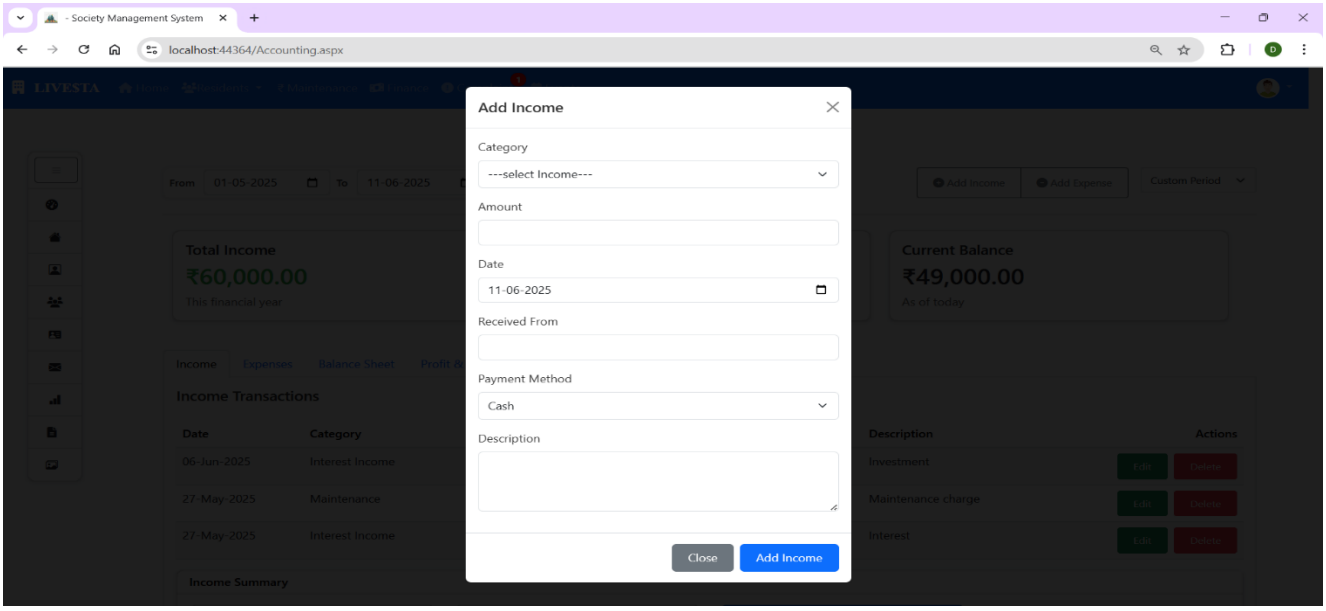

The **Profit & Loss Statement** section of the accounting module provides a detailed view of the society's **financial performance** for a selected time period (e.g., Current Year, Last Month, etc.) using the top-right **dropdown filter**.

## 39. Custom Period Filter – Income & Expense Tracking by Date Range



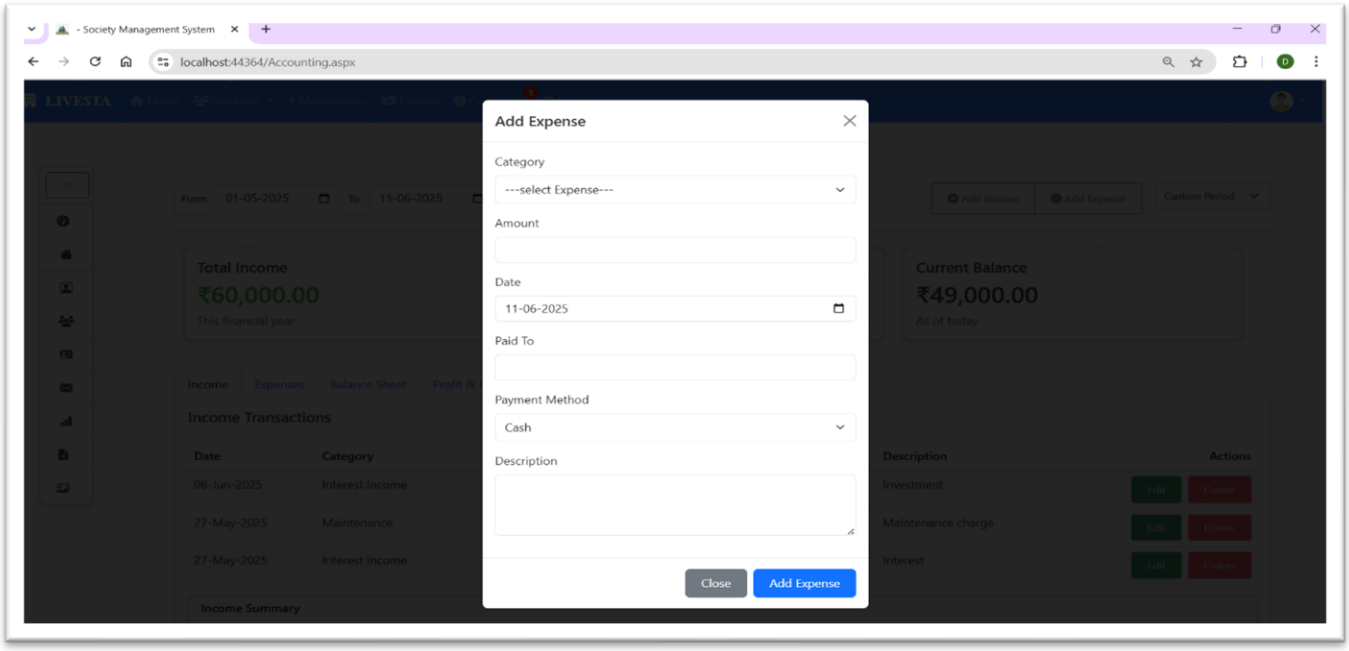

The **Custom Period Filter** in the Income section allows users to **select a specific date range** to view transactions and summaries. This adds flexibility and precision to financial analysis.

## 40. Add Income – Entry Form for Recording Transactions



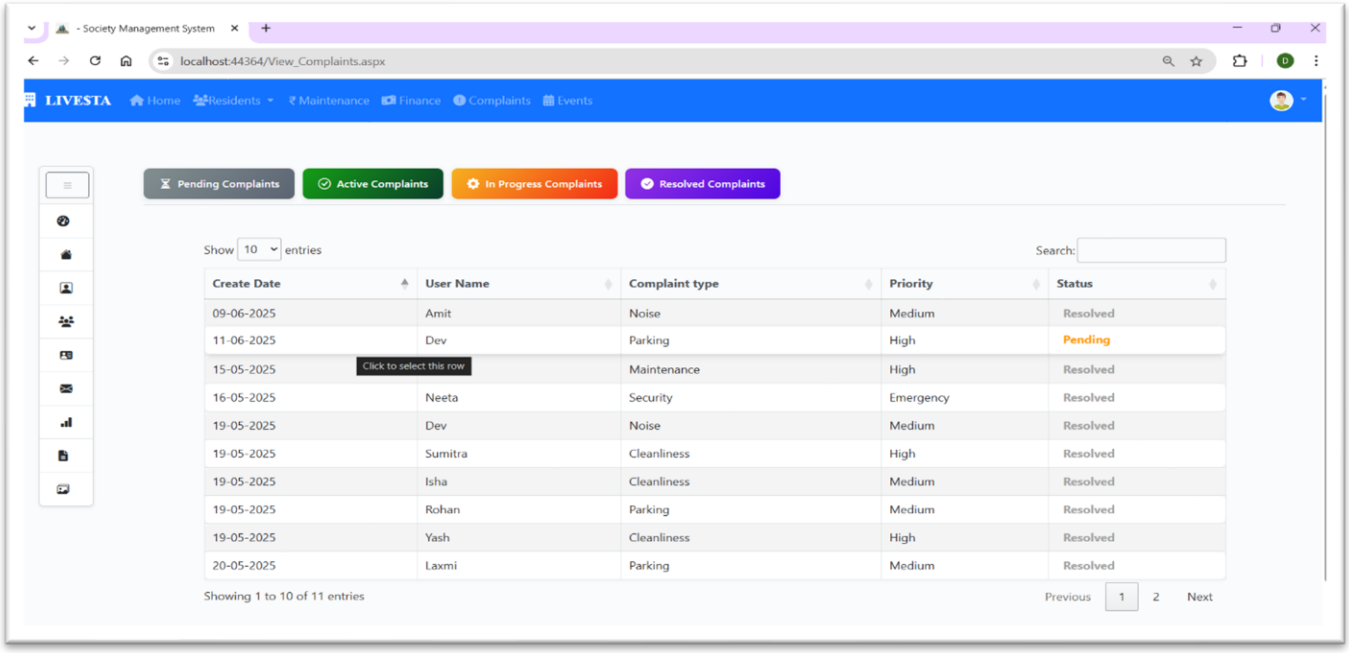

The **Add Income** form is used to record a new income transaction in the **Society Management System**. This popup modal ensures structured entry of all relevant financial details.

## 41. Add Expense – Entry Form for Logging Expenses



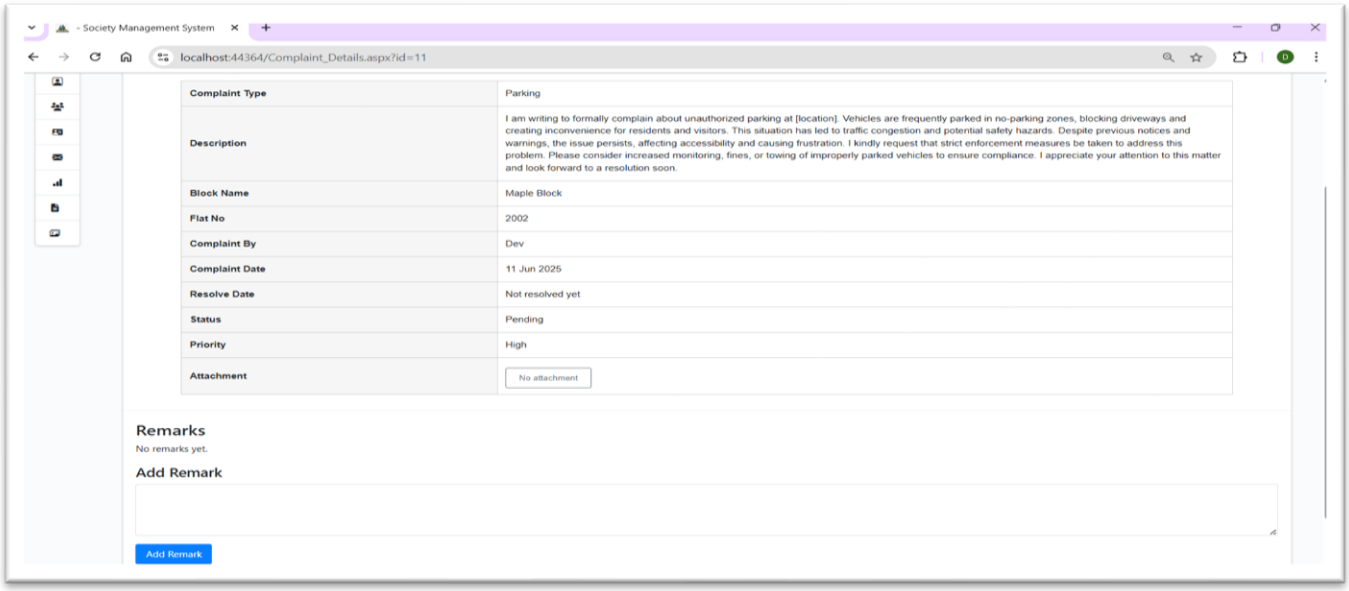

The **Add Expense** popup is a dedicated form for entering and tracking outgoing payments within the **Society Management System**.

## 42. All Complaint View – Interactive Complaint Management Dashboard



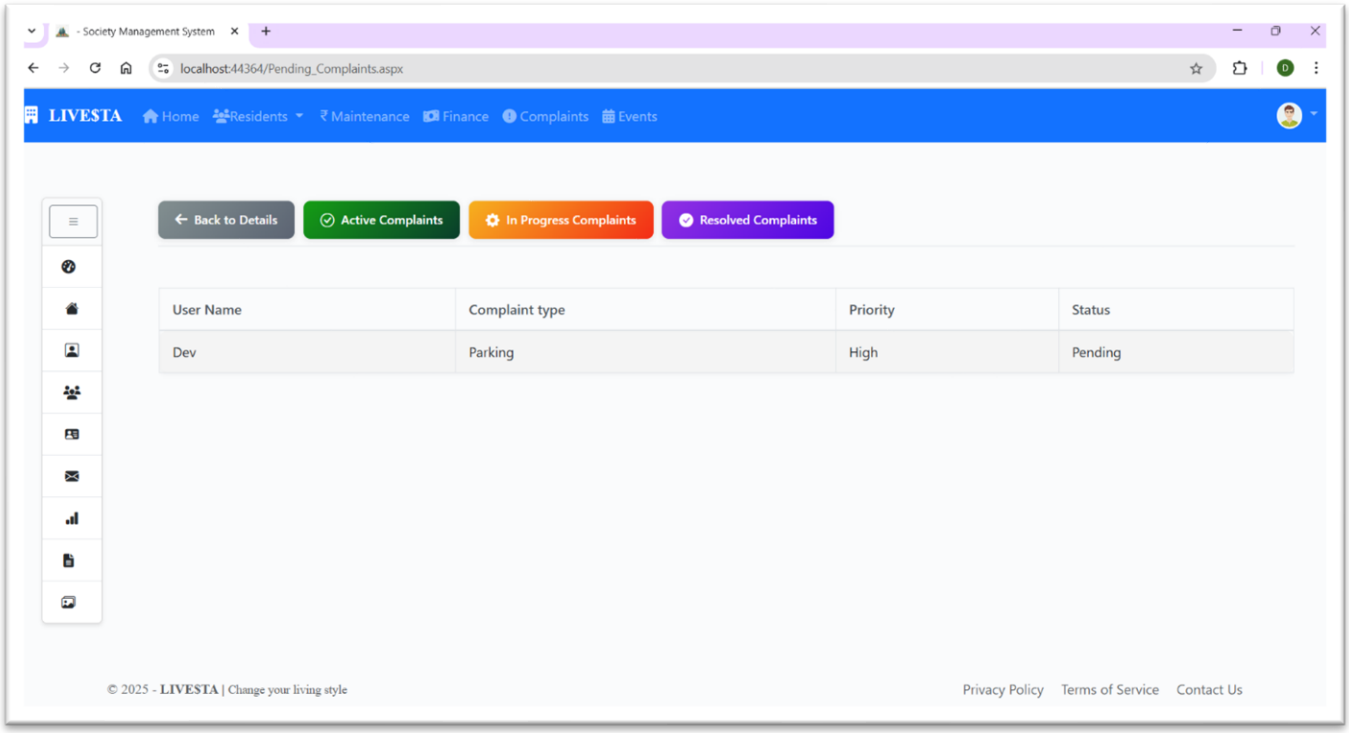

This interface provides a comprehensive overview of all complaints in the **Society Management System** with interactive filtering and sorting capabilities.

## 43. Complaint Detail View



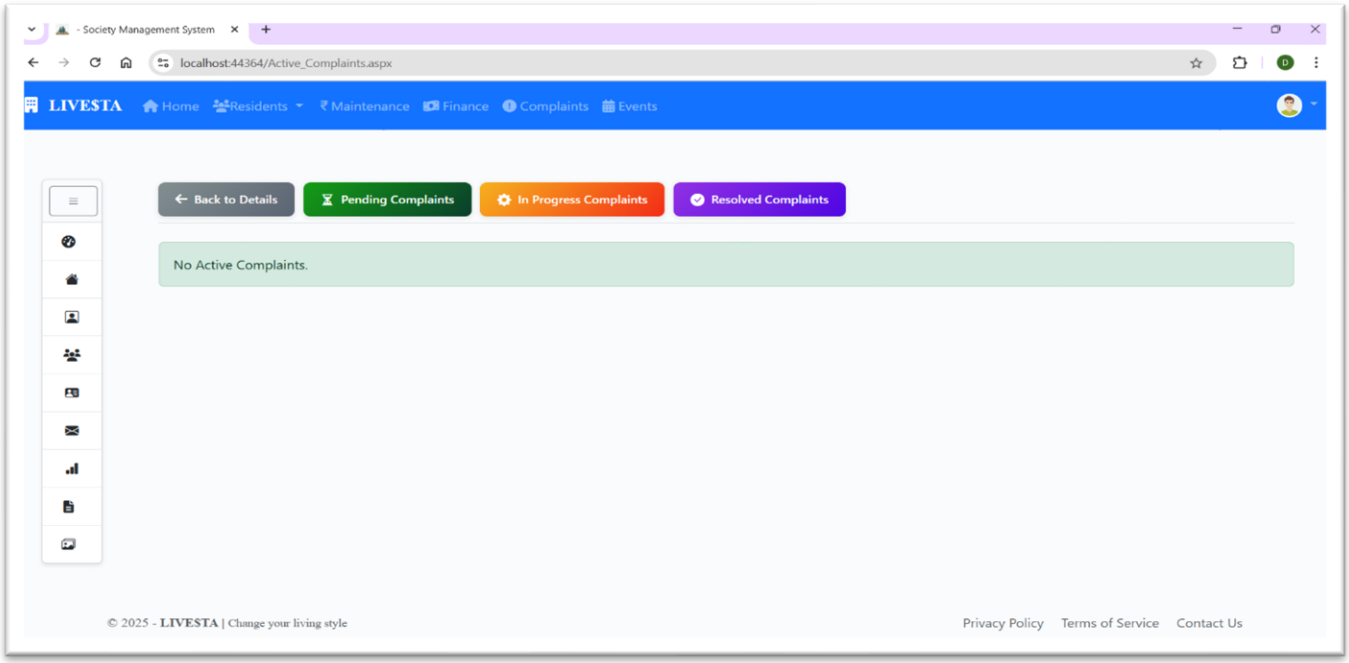

When a user clicks a row in the "All Complaint View," it navigates to a **Complaint Detail Page** showing full complaint information for review and follow-up.

## 44. Pending Complaints Page Overview



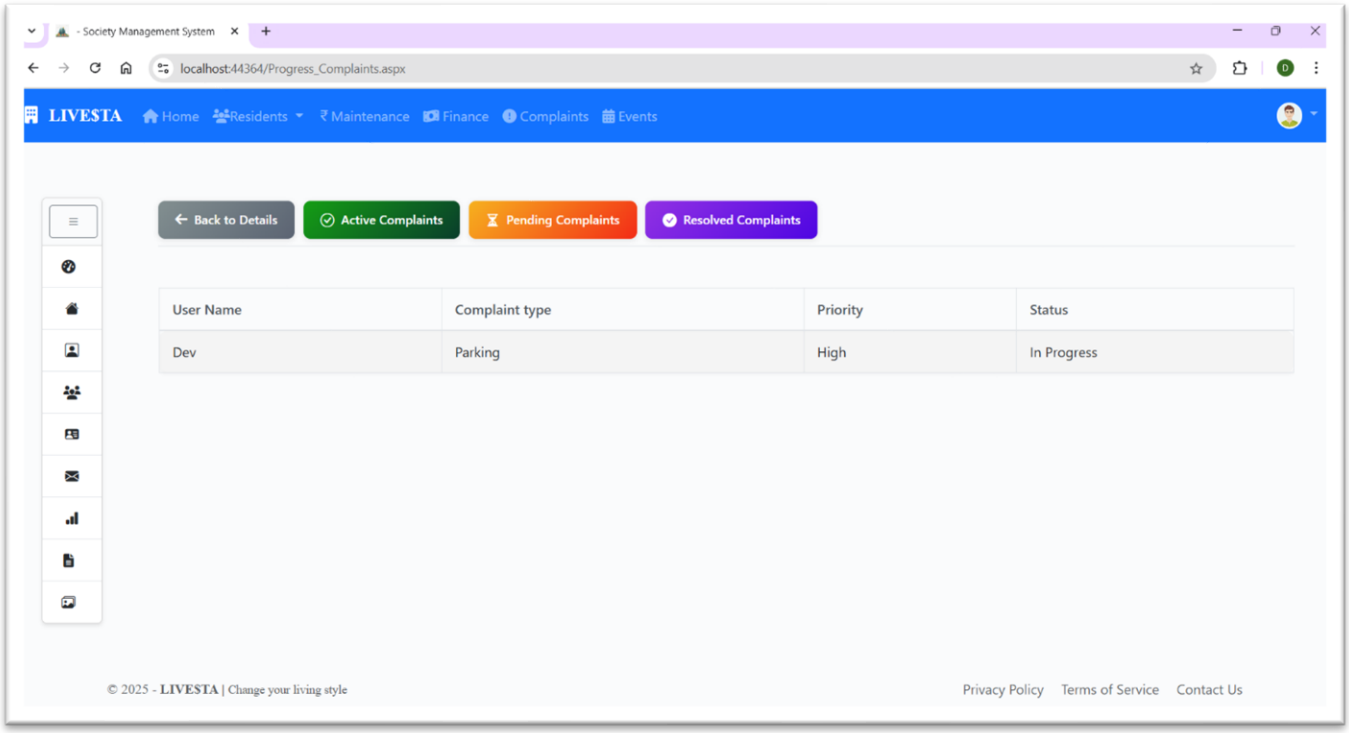

This page provides a filtered view showing only complaints currently in a "Pending" state.

## 45. Active Complaints Page Overview



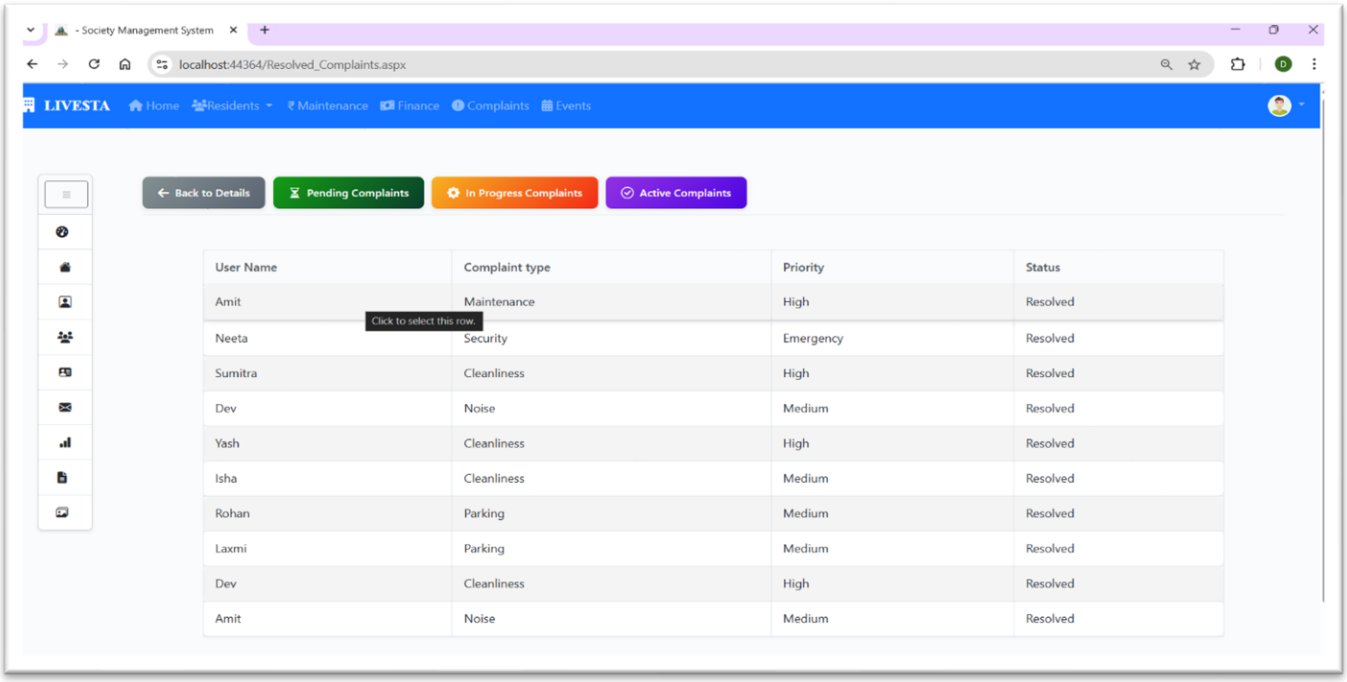

This section is meant to show complaints that are marked as **"Active"** — likely those that are under review or recently opened.

## 46. In Progress Complaints Overview



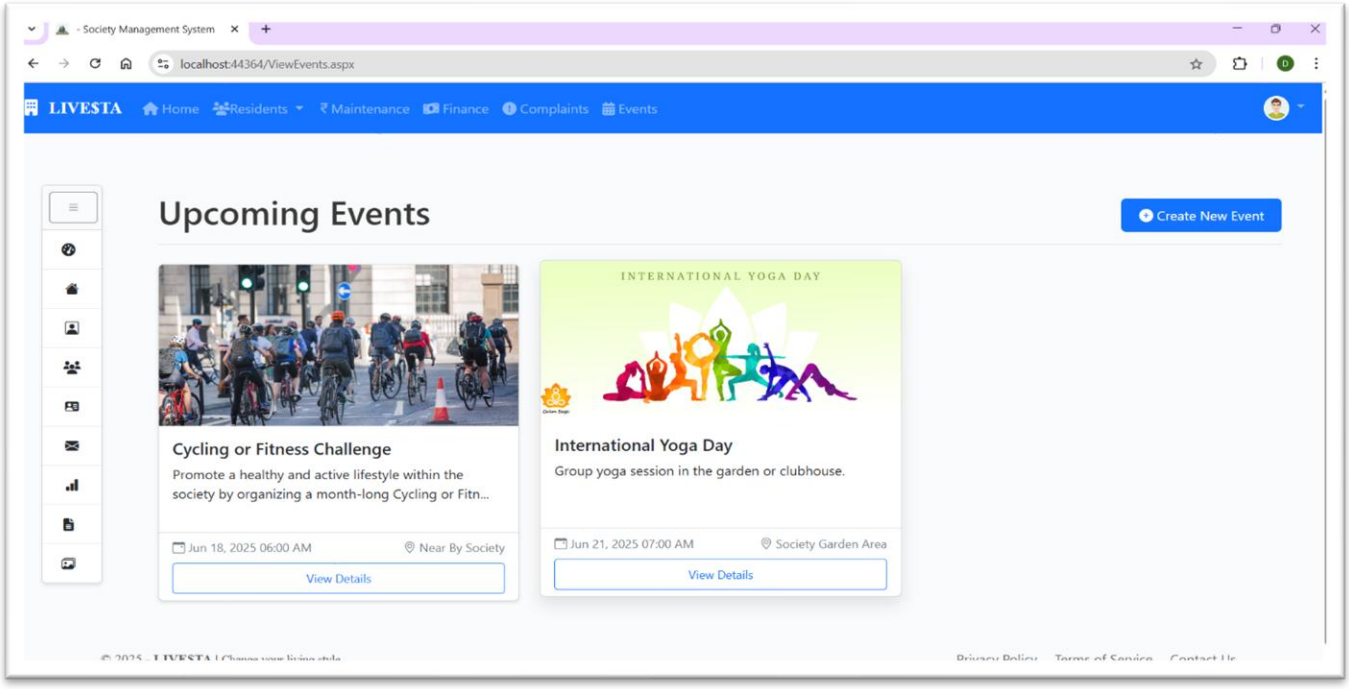

The "**In Progress Complaints**" page shows all complaints currently being addressed by the management team. It helps track ongoing issues and ensures transparency in the resolution process.

## 47. Resolved Complaints Overview



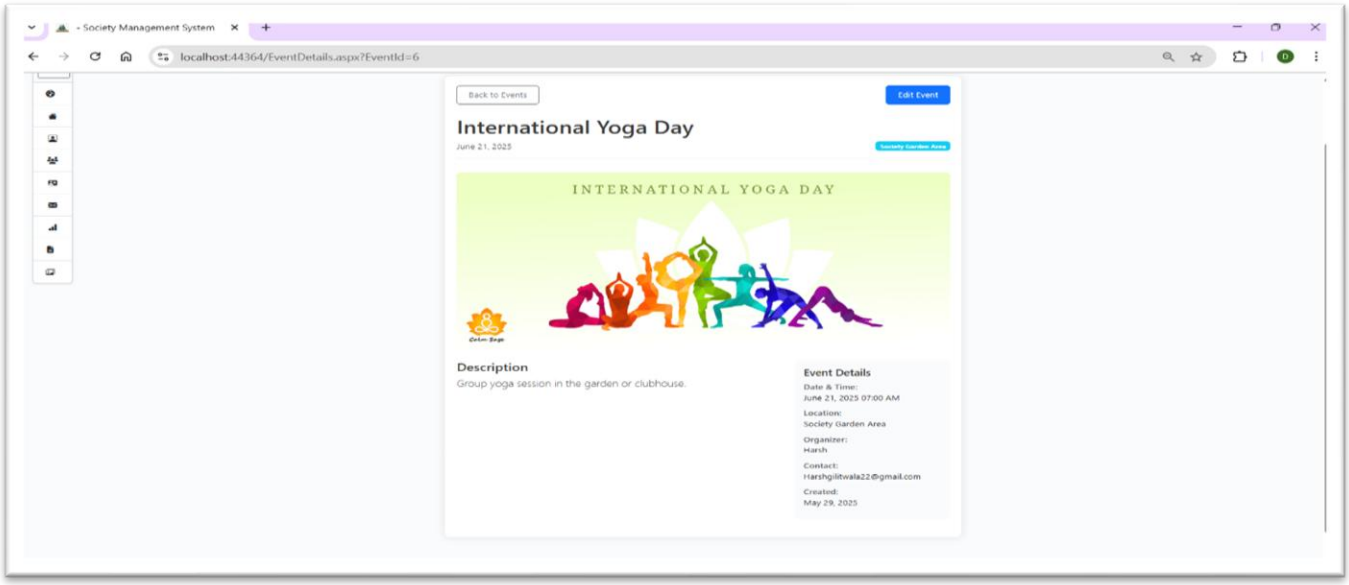

List of all **resolved complaints** with details like user, type, and priority.

## 48. Upcoming Events Page



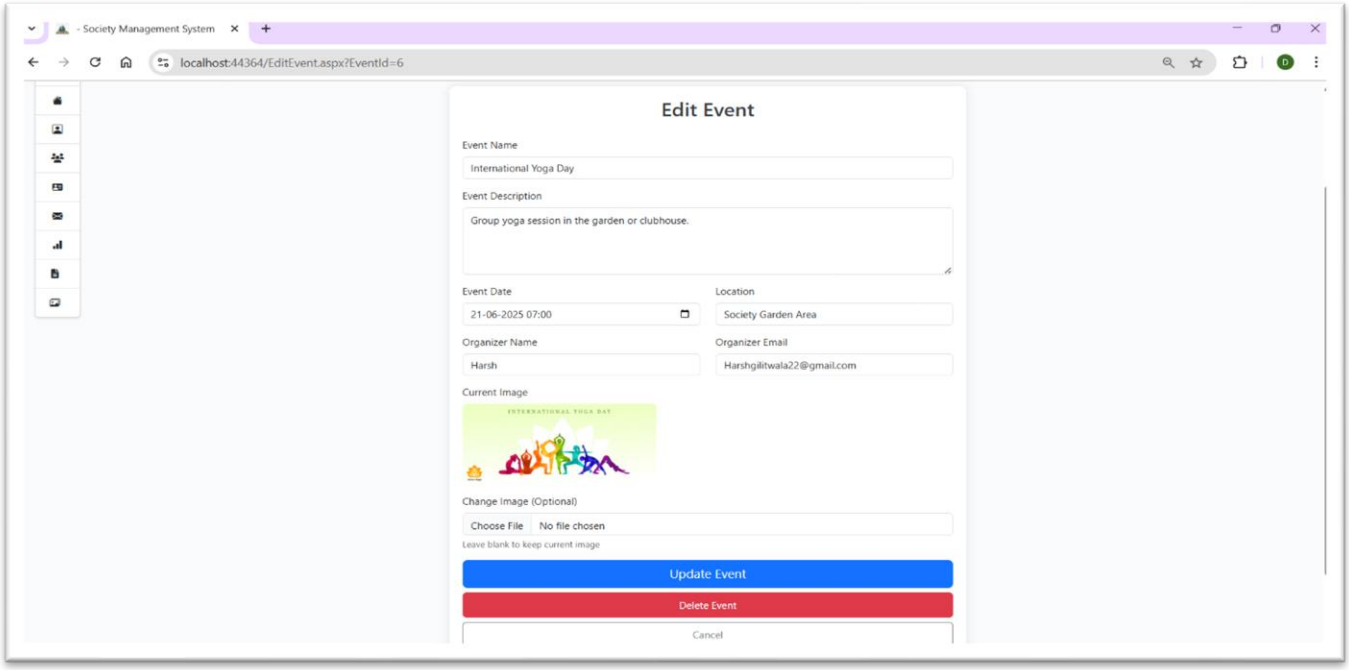

The **Events page** highlights all **upcoming community activities** with key details like date, time, and location.
Users can click **"View Details"** to access more information about each specific event.
It encourages **resident participation** and keeps the society informed and engaged.

## 49. Event Details View



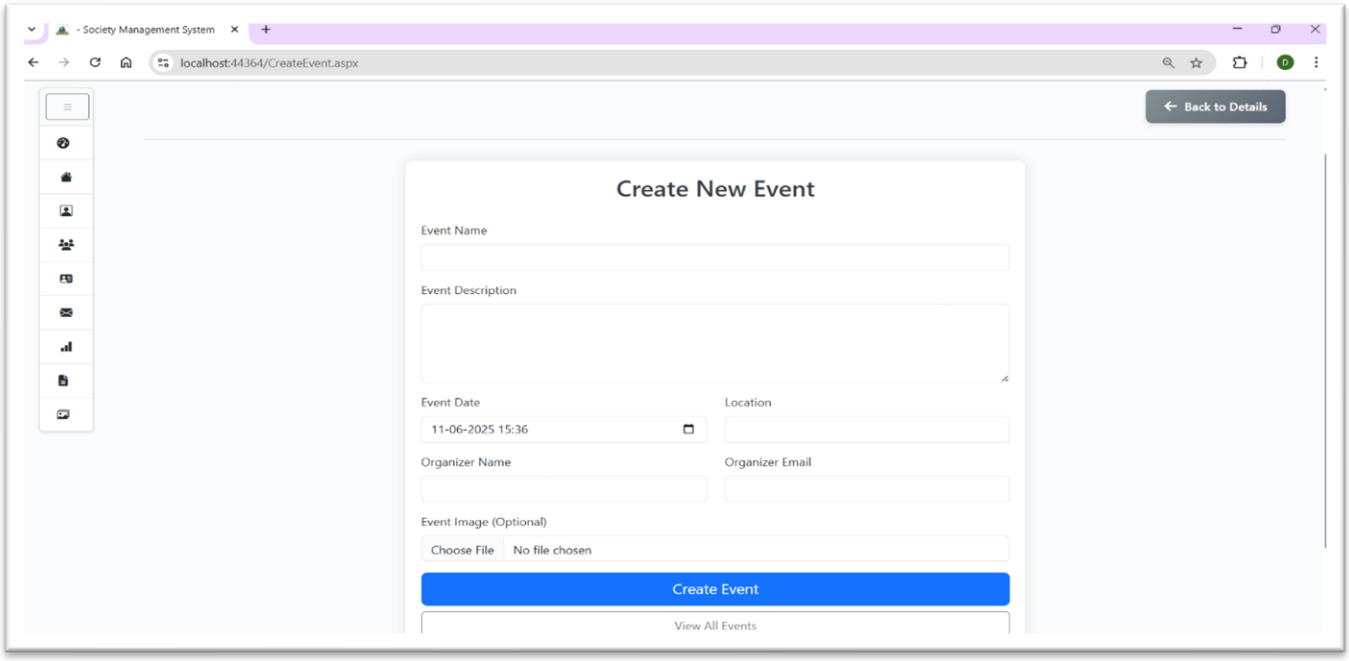

On clicking the **"View Details"** button from the Events page, users are directed to a detailed view of the selected event.
This page displays all **important information** such as date, time, venue, organizer, and contact details.
If needed, users can click **"Edit Event"** to update the event information.

## 50. Edit Event Page



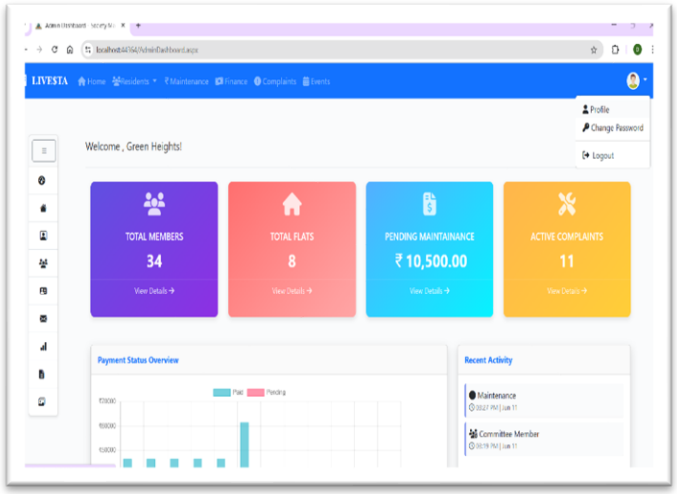

This page allows users to **update event details** like name, description, date, location, and organizer info. Users can also **change the event image** or delete the event entirely.

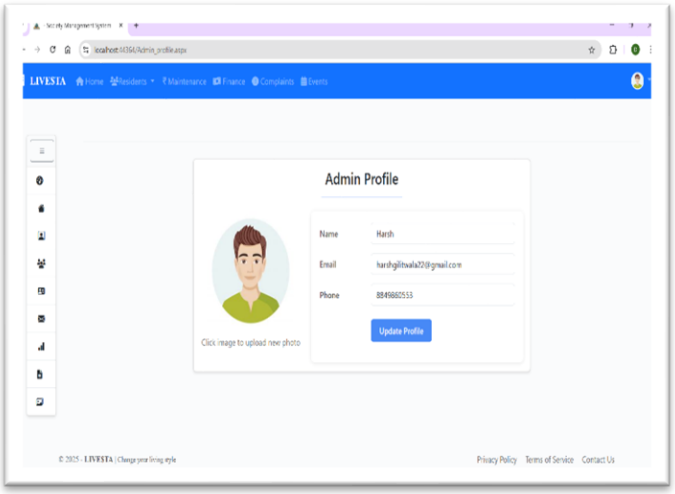
## 51. Create Event Page




This page allows users to **add new events** by entering details like name, description, date, location, and organizer info.
Users can also **upload an optional image** and submit the form using the **Create Event** button.

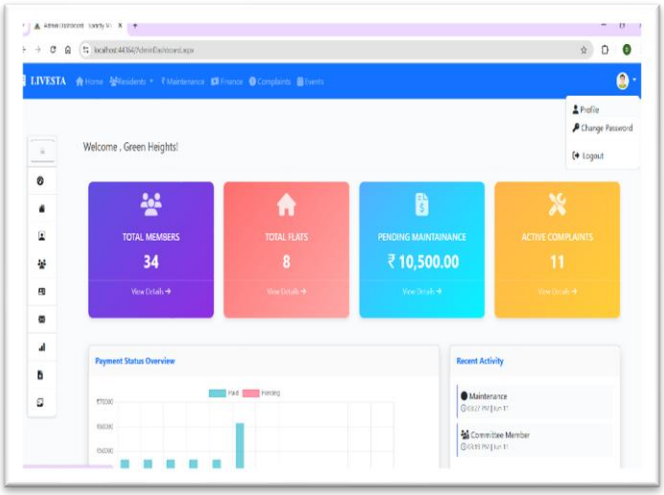
## 52. Admin Profile Management

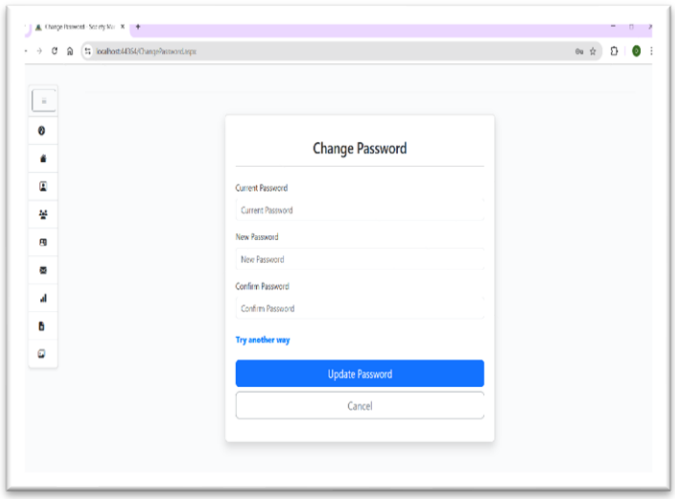



The **Admin Profile** section allows the admin to **view and update** their name, email, and phone number. It also supports **profile image upload** by clicking on the avatar. Changes can be saved using the **Update Profile** button. This feature ensures the admin's contact details remain current and easily manageable from the dashboard.

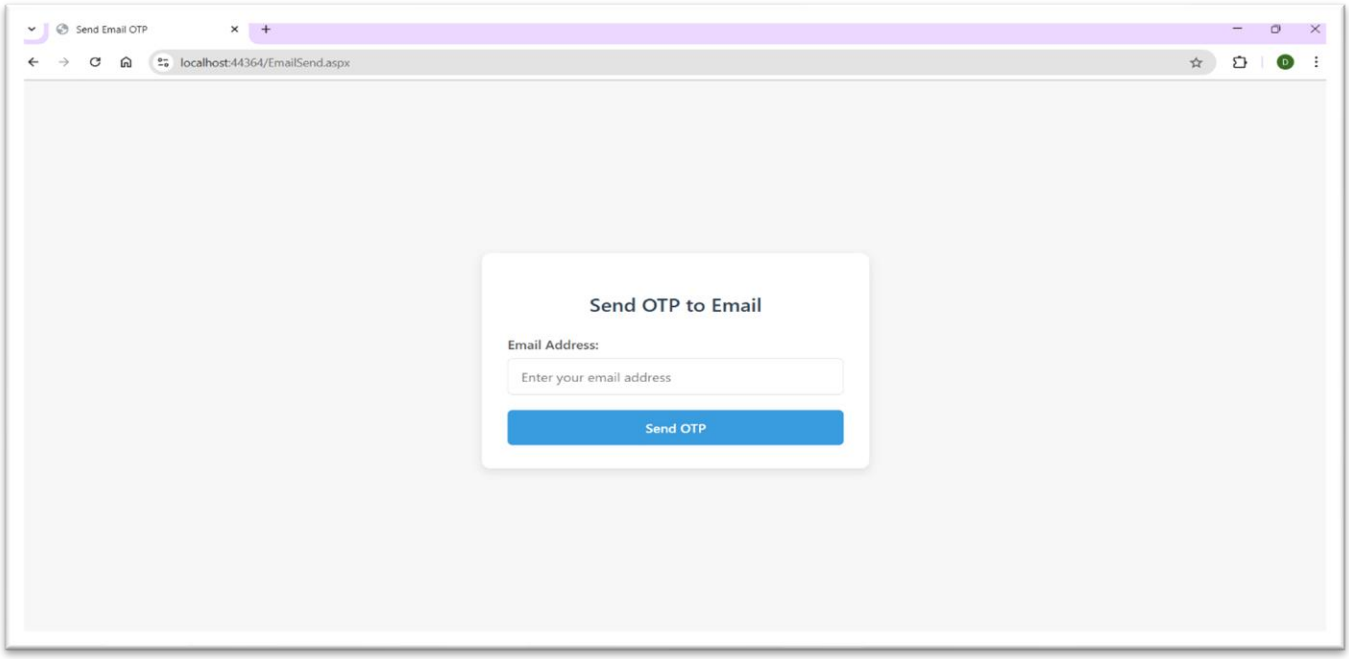
## 53. Change Password



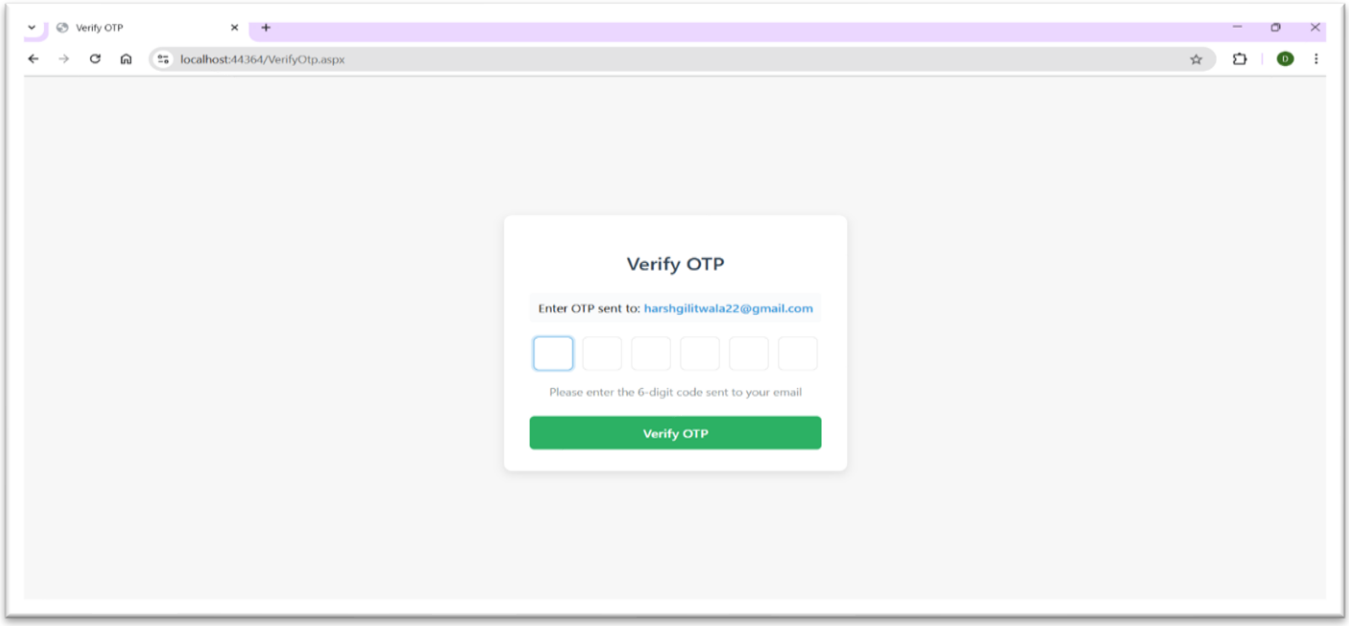

The **Change Password** feature enhances account security by allowing the admin to **update their password**. It requires entering the **current password**, a **new password**, and confirming the new password to ensure accuracy. Once verified, the admin can securely update credentials by clicking **Update Password**.

## 54. Send OTP for Verification



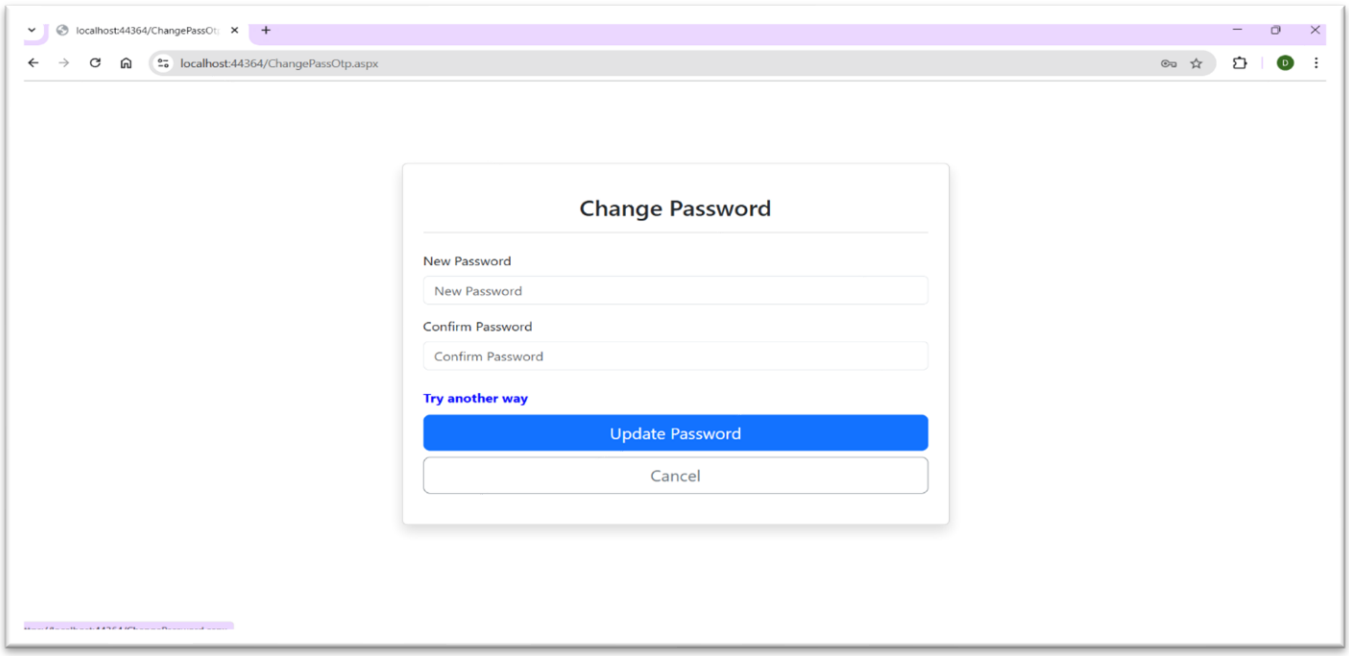

When the user selects **"Try another way"** on the Change Password page, they are redirected here to verify their identity via email. By entering their **registered email address**, an **OTP (One-Time Password)** is sent for secure authentication before allowing password updates.

## 55. Verify Email with OTP




After the OTP is sent to the registered email address, the user is directed to this page to **enter the 6-digit code**. This step ensures the identity of the user before allowing any sensitive actions like changing the password. Only after successful OTP verification can the process continue securely.

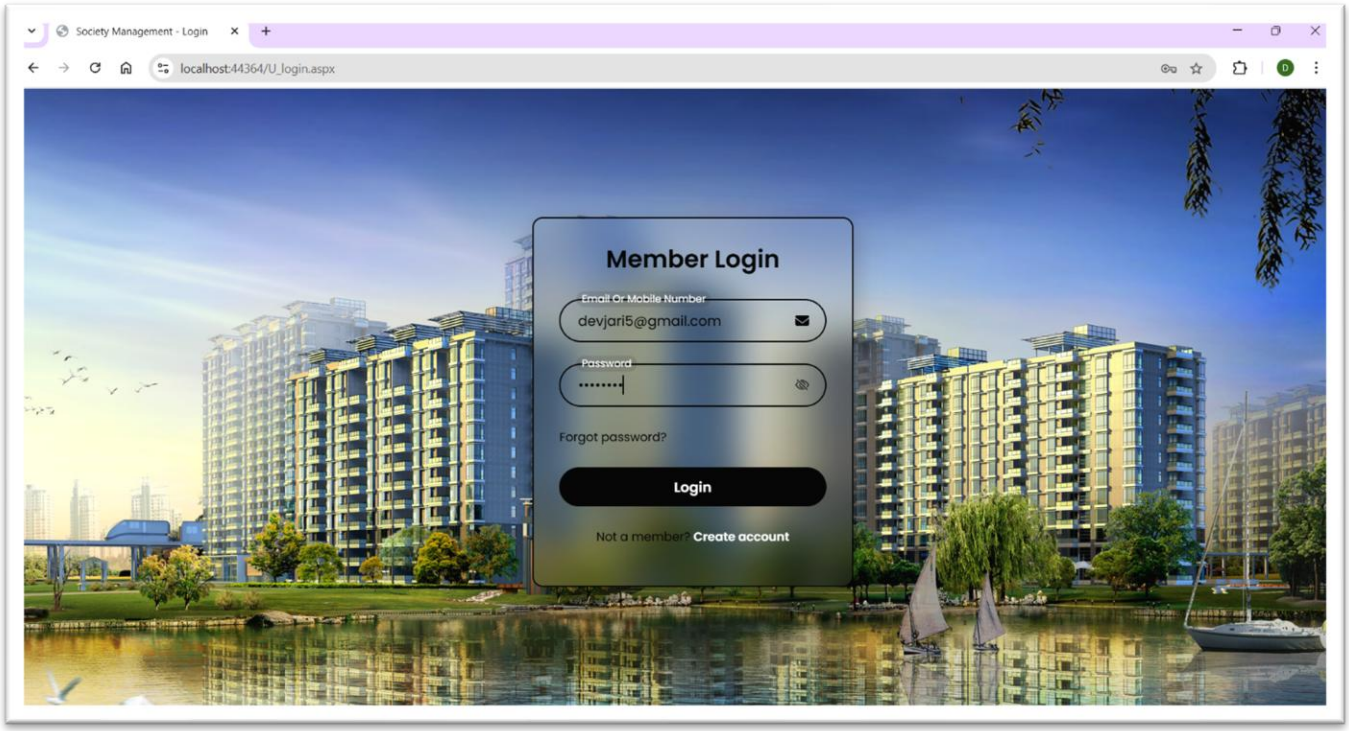
## 56. Set New Password




Once the OTP is successfully verified, the user is redirected to this page to set a new password. They must enter and confirm the new password to complete the password reset process securely. This ensures account recovery is both smooth and protected against unauthorized access.

## User Module

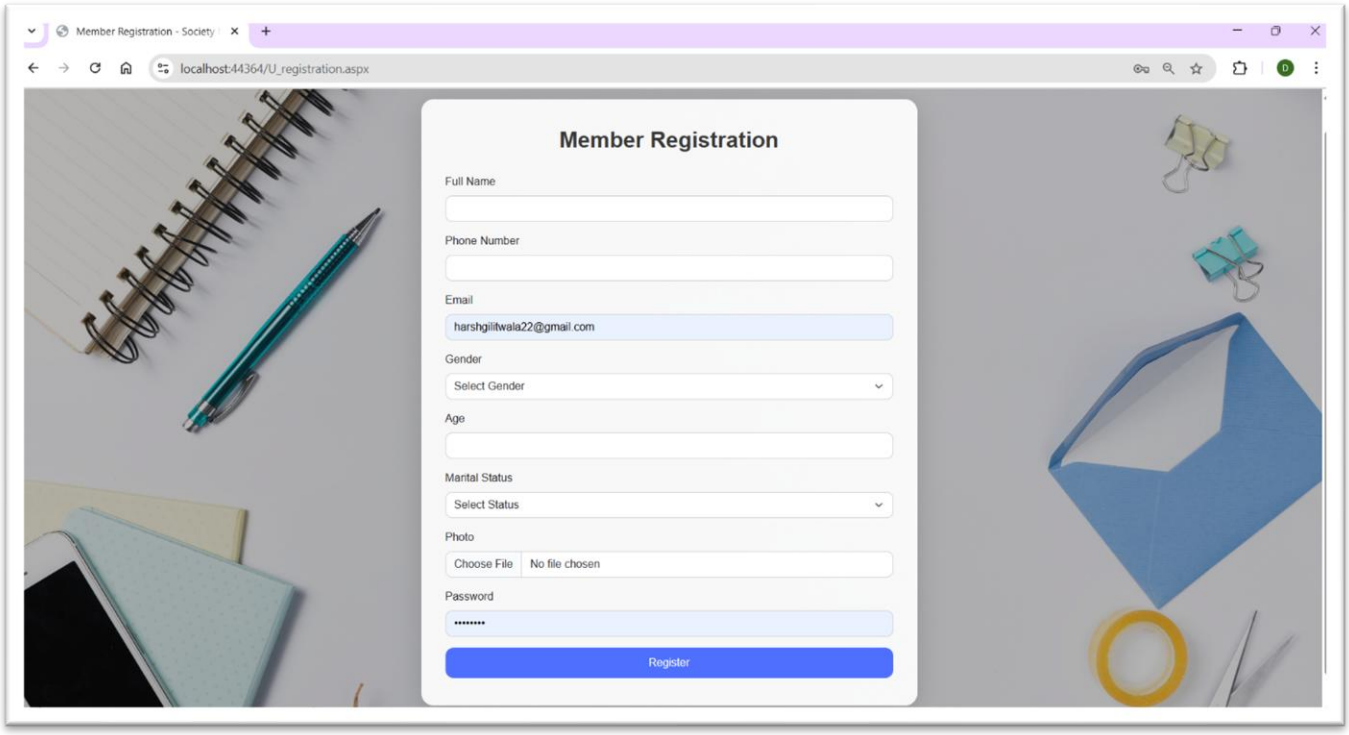
### 1.User Login




The **Member Login** page serves as the secure entry point for registered users. Users are required to input their **registered email address or mobile number** and corresponding **password** to gain access to their account. This page also includes options for password recovery and new user registration, making it user-friendly and accessible.

Only existing users can log in from this page by entering valid credentials. Upon successful authentication, users are redirected to their dashboard. The login process is protected, ensuring unauthorized access is prevented. Error handling is in place for incorrect credentials or inactive accounts.

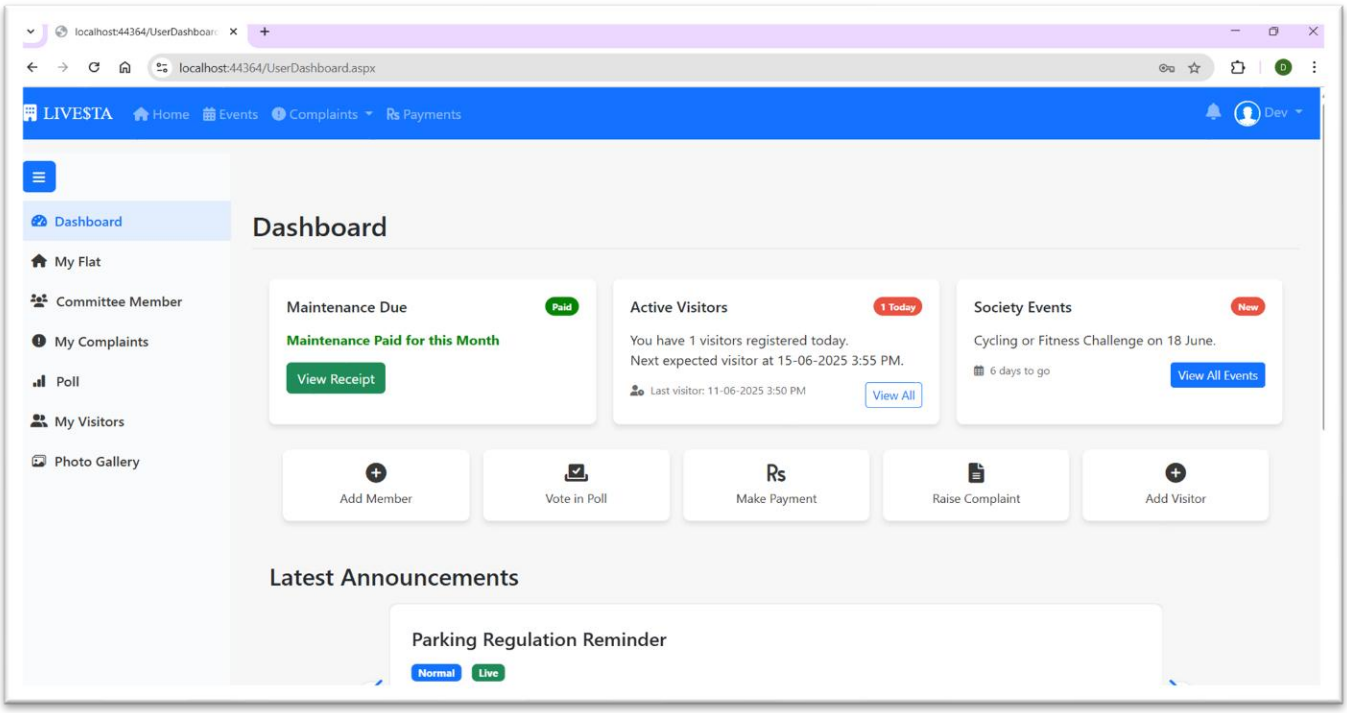
## 2. Member Registration Page Overview

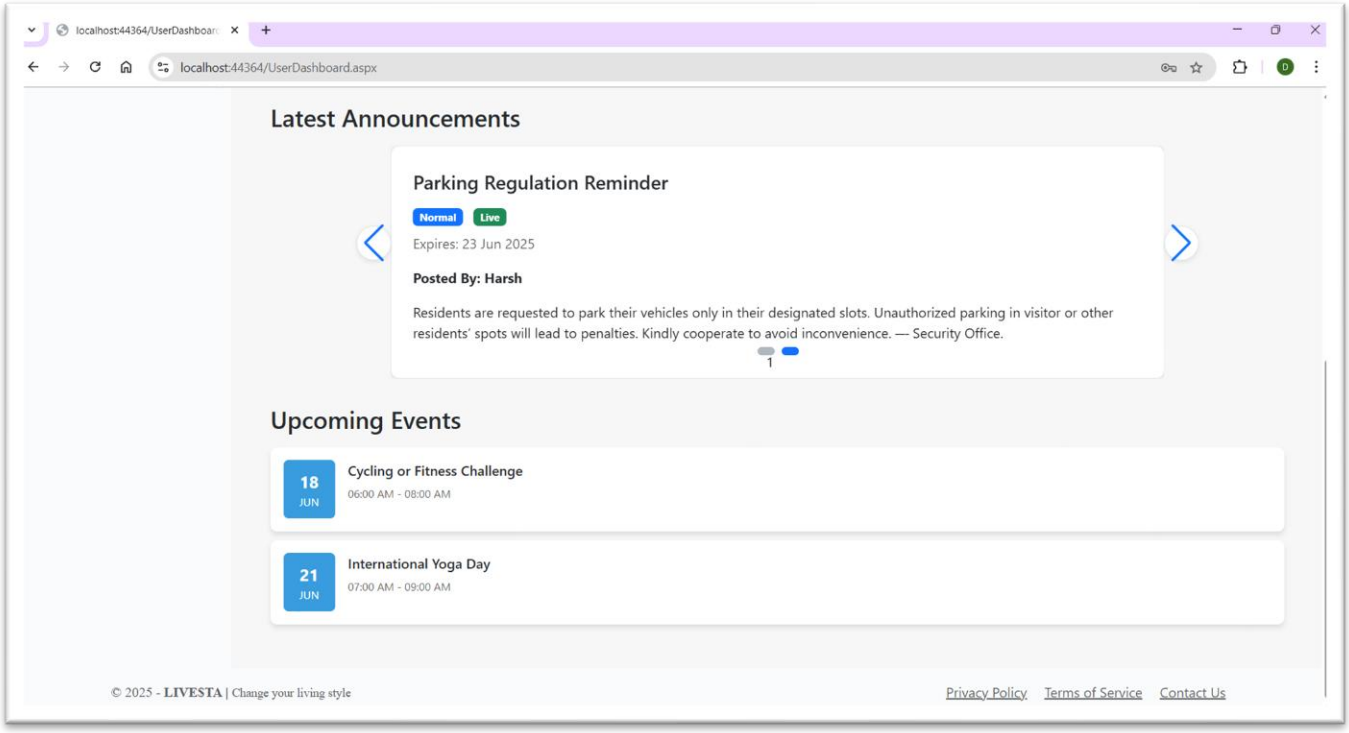



The **Member Registration** page is designed to allow new users to register for the Society Management System. This form is accessed when a user clicks on **"Create account"** from the login screen, indicating they are not yet registered.

Upon successful registration, the user can log in from the **Login Page** using their email or phone number and the password they created.

## 3. User Dashboard Module Overview






Once a user logs in successfully (after registration or login), this Dashboard page becomes visible. It gives users access to all essential features for managing their flat, society activities, visitors, complaints, payments, and more.

## Header Navigation Bar

| Tab Name | Purpose / Functionality |
|---|---|
| **Home** | Navigates back to the dashboard from any other page. |
| **Events** | View list of all upcoming or past society-organized events. |
| **Complaints** | Another access point to raise or check complaints. |
| **Payments** | Shortcut to view or complete society-related payments like maintenance. |
| **Notification Bell** | Alerts users about new complaints, announcements, or visitor activity. |
| **User Profile** | Allows users to view profile, change password, or log out securely. |

## Sidebar Modules

| Module Name | Purpose / Functionality |
|---|---|
| **Dashboard** | Default landing page after login; shows a quick summary of maintenance, visitors, events, and actions. |

| Module Name | Purpose / Functionality |
|---|---|
| **My Flat** | Displays user's flat/unit details like block, flat number, ownership, or occupancy info. |
| **Committee Member** | Shows names and contact information of society committee members for transparency. |
| **My Complaints** | Users can raise, view status, or respond to grievances like maintenance or noise issues. |
| **Poll** | Vote on society decisions (e.g., community rules, facility upgrades) to encourage democracy. |
| **My Visitors** | View current/past visitors, register expected guests, and monitor visitor history. |
| **Photo Gallery** | Browse shared society event photos or gallery memories with the community. |

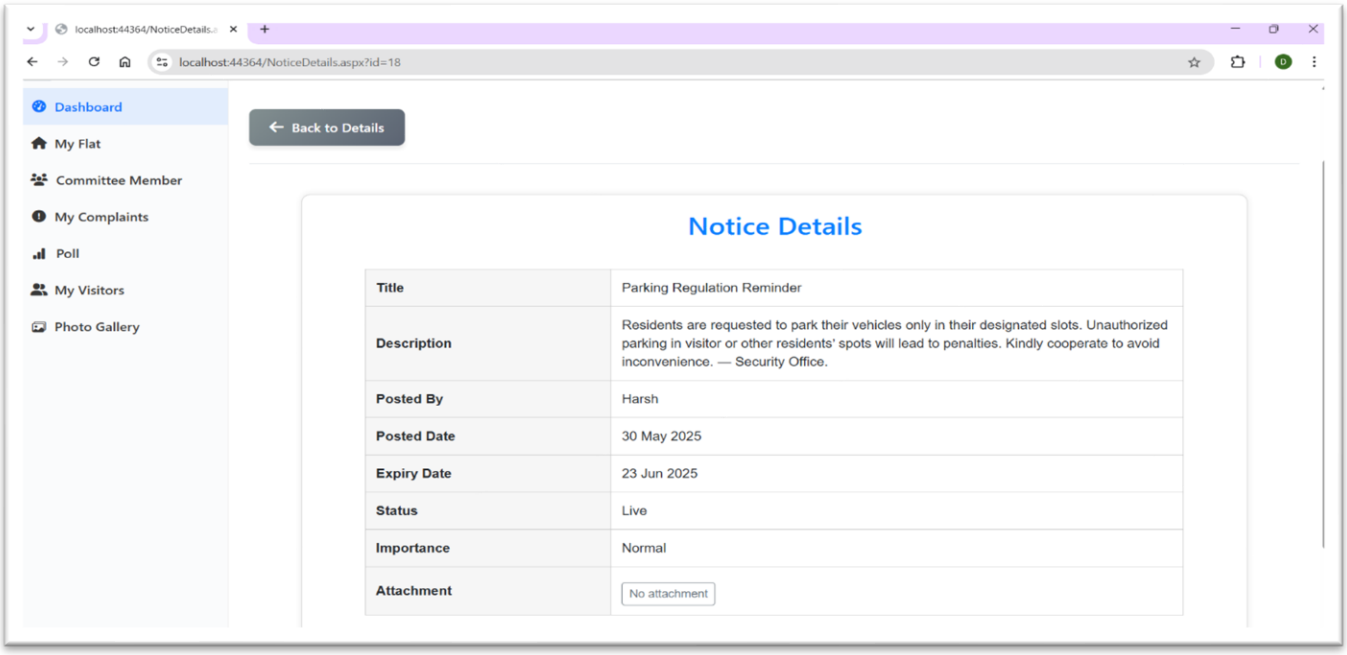
## Announcements & Events Section (Bottom Panel)

| Section | Purpose / Functionality |
|---|---|
| **Latest Announcements** | Carousel of important updates like parking rules or water cuts from society officials. |
| **Upcoming Events** | List of all planned events with date, time, and description (e.g., Yoga Day, Fitness). |

## Main Dashboard Widgets (Center Area)

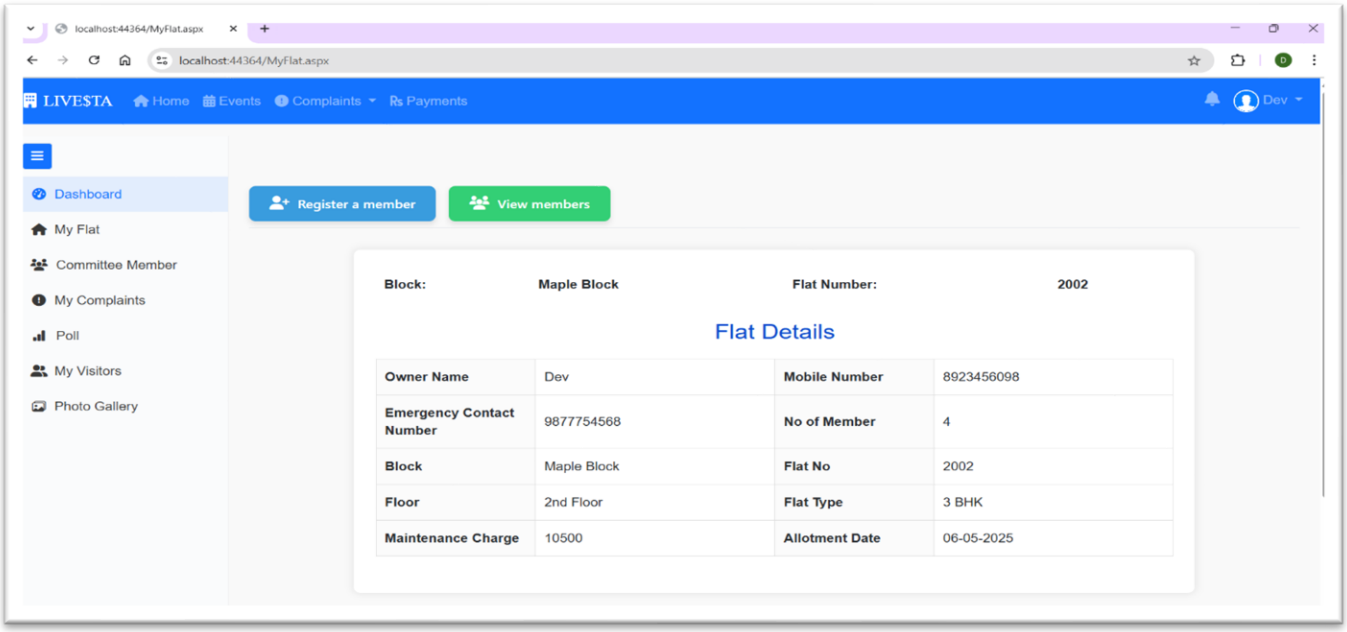
| Widget | Purpose / Functionality |
|---|---|
| **Maintenance Due** | Shows whether the monthly maintenance is paid. Users can download the receipt. |
| **Active Visitors** | Displays how many visitors are registered today and when the next visitor is expected. |
| **Society Events** | Lists major events (e.g., Cycling Challenge), with a button to see full event details. |
| **Add Member** | Allows the user to add a family member or co-resident under their account. |
| **Vote in Poll** | Redirects to the poll module so the user can cast a vote in ongoing society polls. |
| **Make Payment** | Quick access to pay dues like maintenance, penalty, or other society fees. |
| **Raise Complaint** | Open the complaint form directly to report any issue in the society. |
| **Add Visitor** | Pre-register expected visitors to inform security in advance. |

## 4.View Notice Details



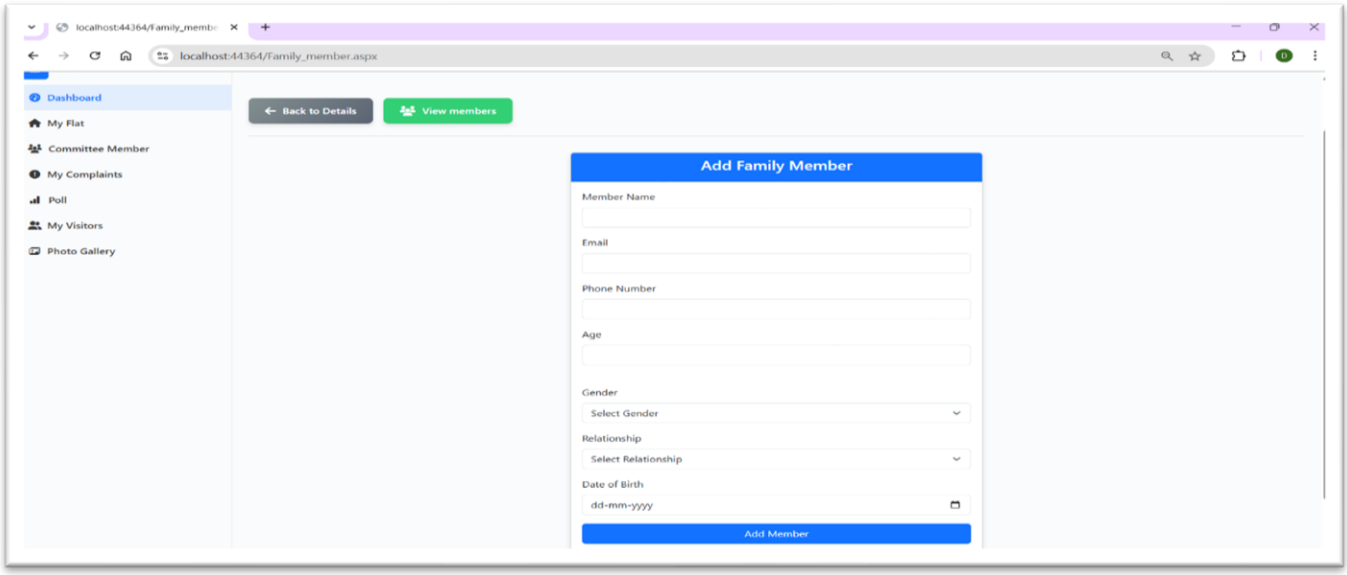

This page displays the **full details of a notice** when a user clicks on it from the **slider in the main dashboard**. It helps residents access **important updates or announcements** posted by the society, ensuring they stay **informed and compliant** with community rules.

## 5. User Flat Details



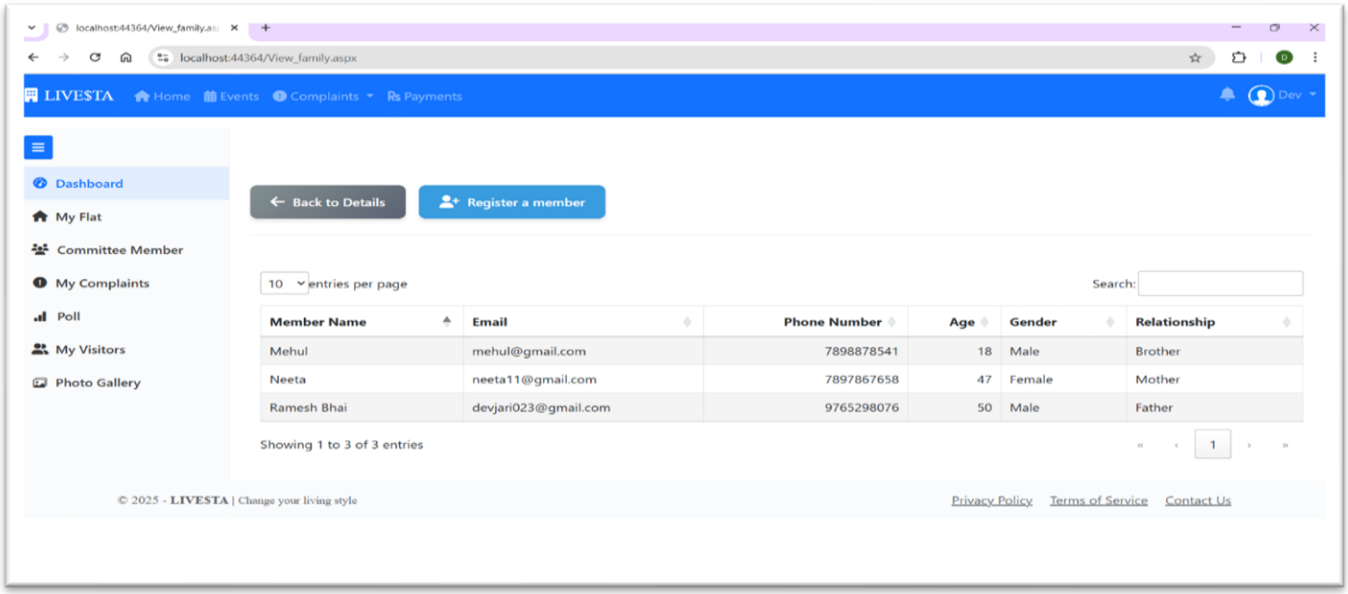

This page displays the **full details of a notice** when a user clicks on it from the **slider in the main dashboard**. It helps residents access **important updates or announcements** posted by the society, ensuring they stay **informed and compliant** with community rules.

## 6.User Can Add Its Family Members



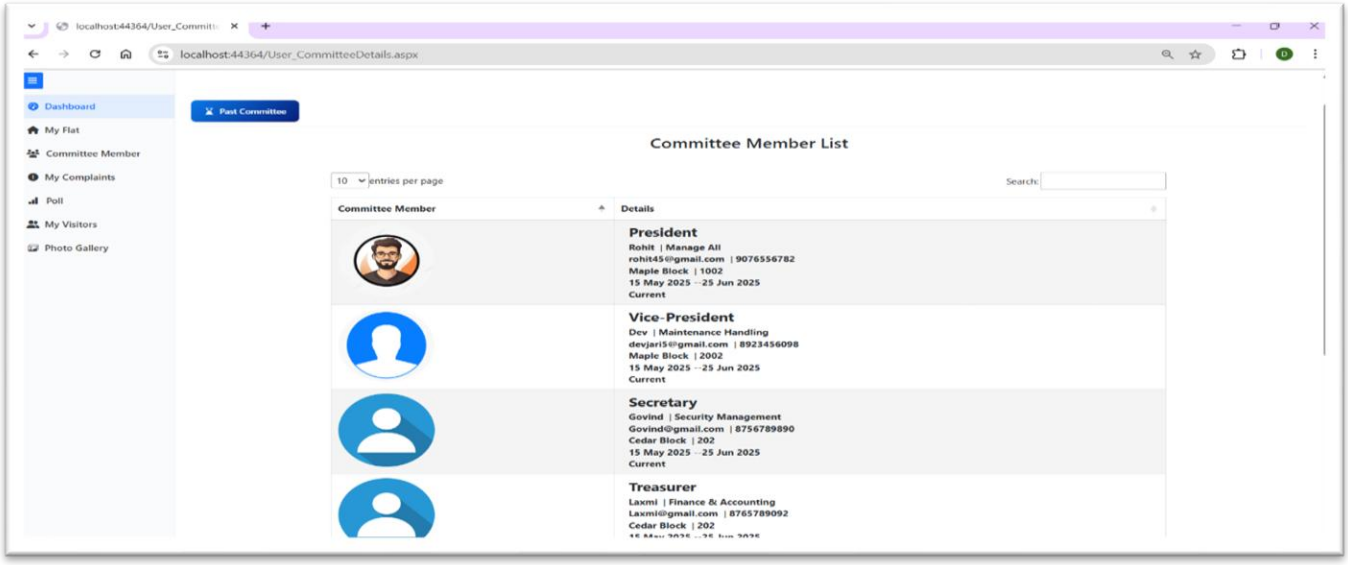

This page allows the user to **add family members** to their flat profile. The user can enter details such as **member name, email, phone number, age, gender, relationship, and date of birth**. It helps maintain a record of all residents living in a unit for security and management purposes.

## 7.View Family Member



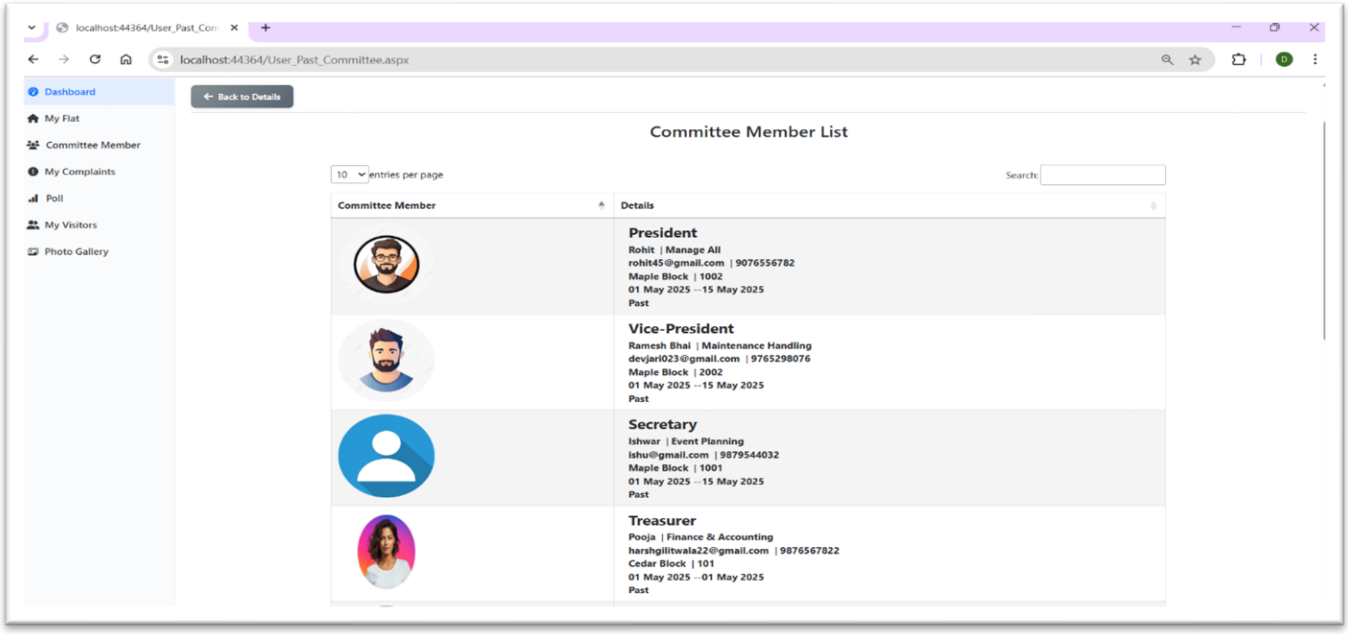

The **View Family Member** page provides a comprehensive overview of all registered family members linked to the user's flat. It displays essential information including **name, email, contact number, age, gender, and relationship**, enabling users to efficiently manage and verify their household member records in a structured and organized manner.

## 8.View Current Committee Member



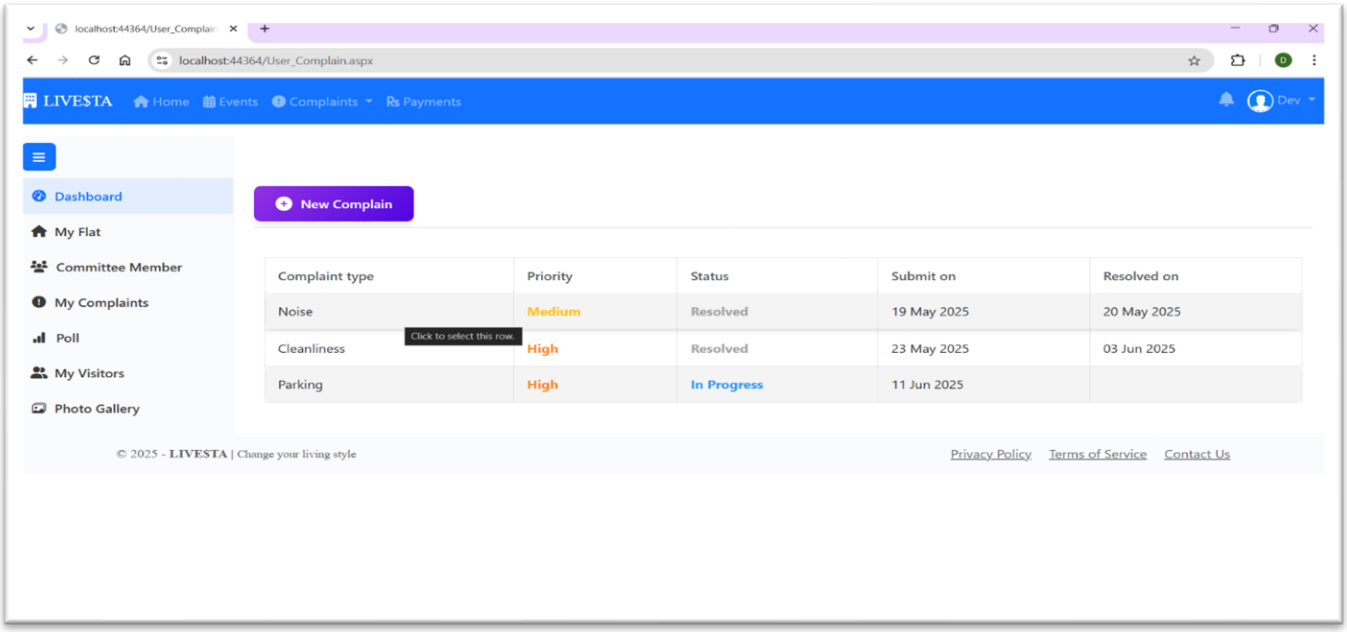

The **Committee Member** page displays the list of current members along with their roles, contact details, and flat information, allowing residents to easily identify and reach out to society representatives.

## 9.View Past Committee Member



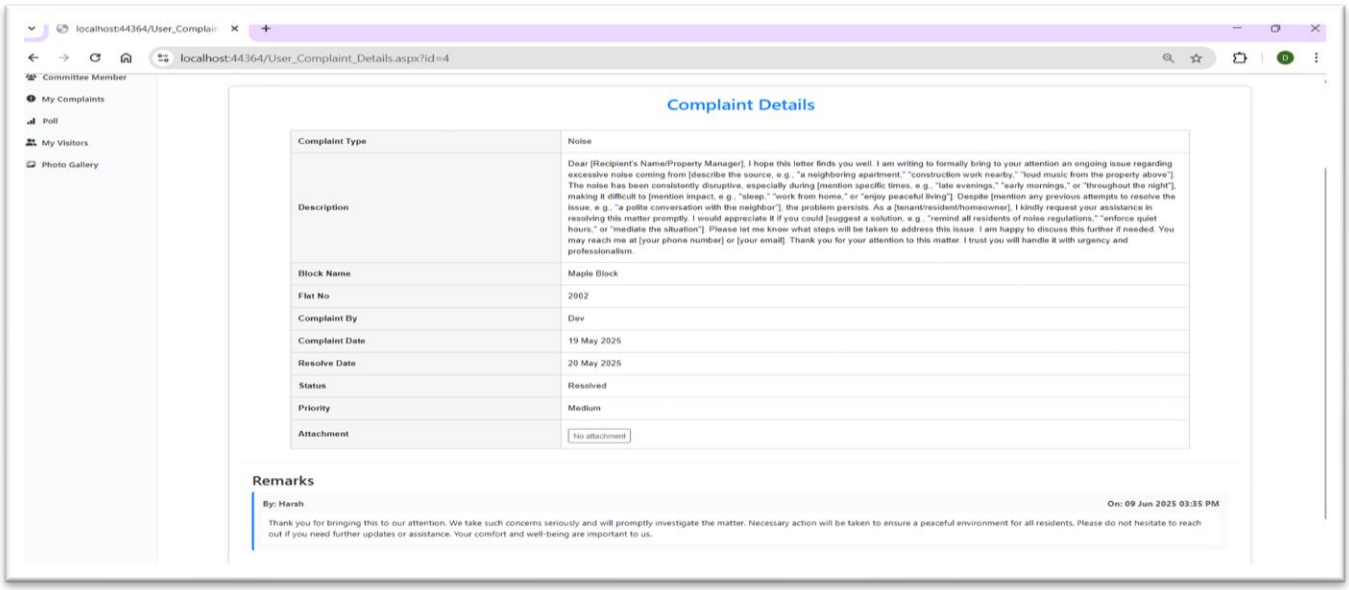

The **Past Committee** page allows users to view details of previous committee members, including their roles, contact info, block numbers, and term dates for reference and transparency.

## 10.User Complaints



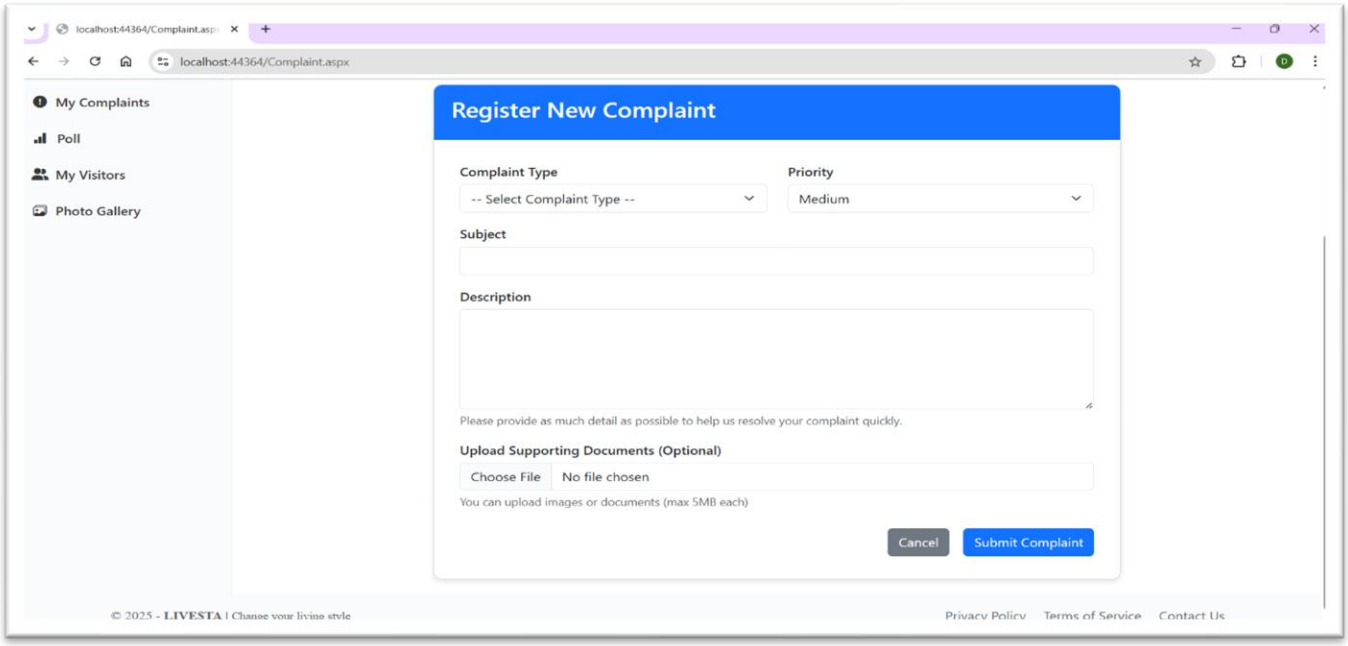

The **My Complaints** page displays a list of all complaints submitted by the user, along with their priority, status, and submission/resolution dates. By clicking on a specific row, users can view detailed information about that particular complaint.

## 11.View User Complaint Details



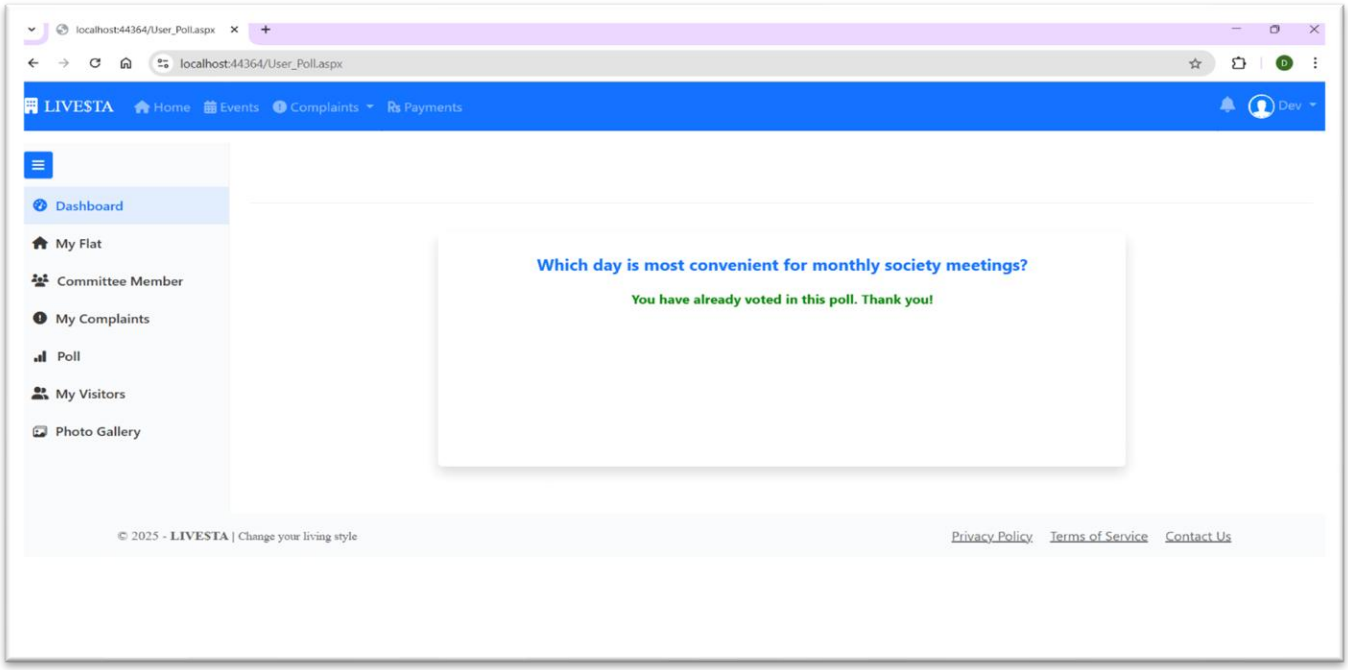

When the user clicks on a specific complaint row from the **My Complaints** page, the **Complaint Details** page is displayed. This page provides complete information about the complaint, including the full description, complaint type, block and flat details, submission and resolution dates, priority, and status. Additionally, any remarks or responses from the admin are shown at the bottom, helping users stay informed about the action taken.

## 12.Add New Complaint



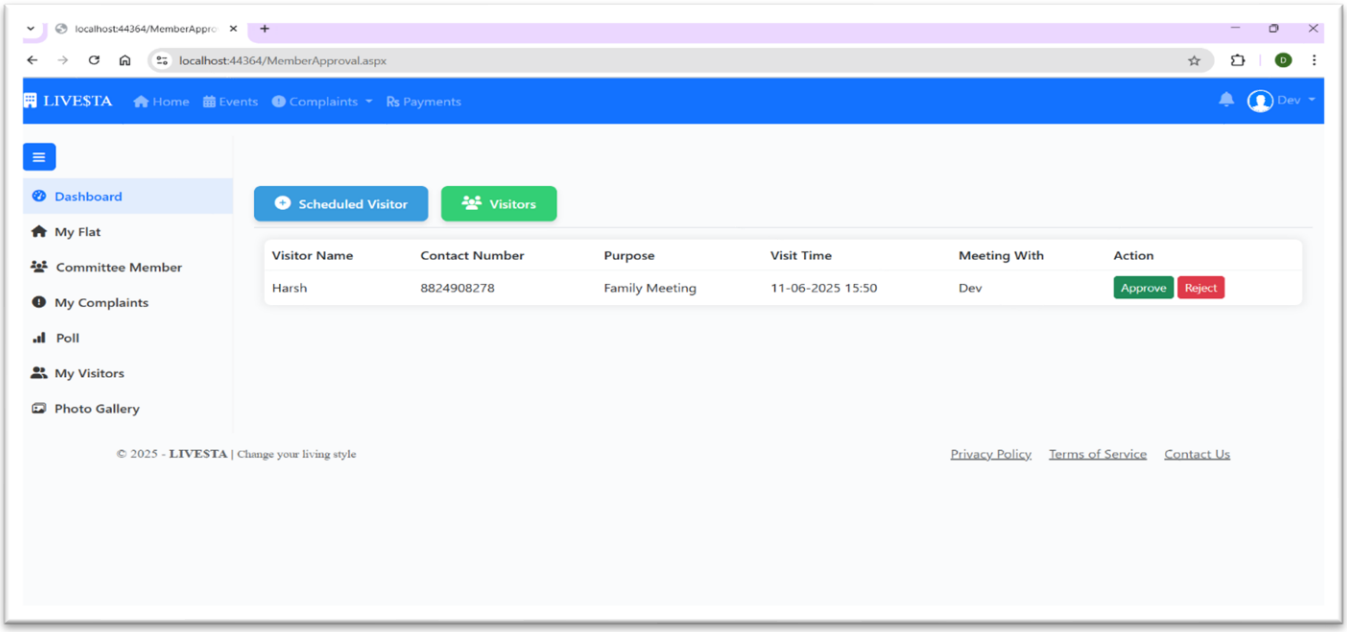

The purpose of the **Register New Complaint** page is to enable residents to easily report issues, ensuring timely resolution and better communication with management.

## 13.Vote in Poll



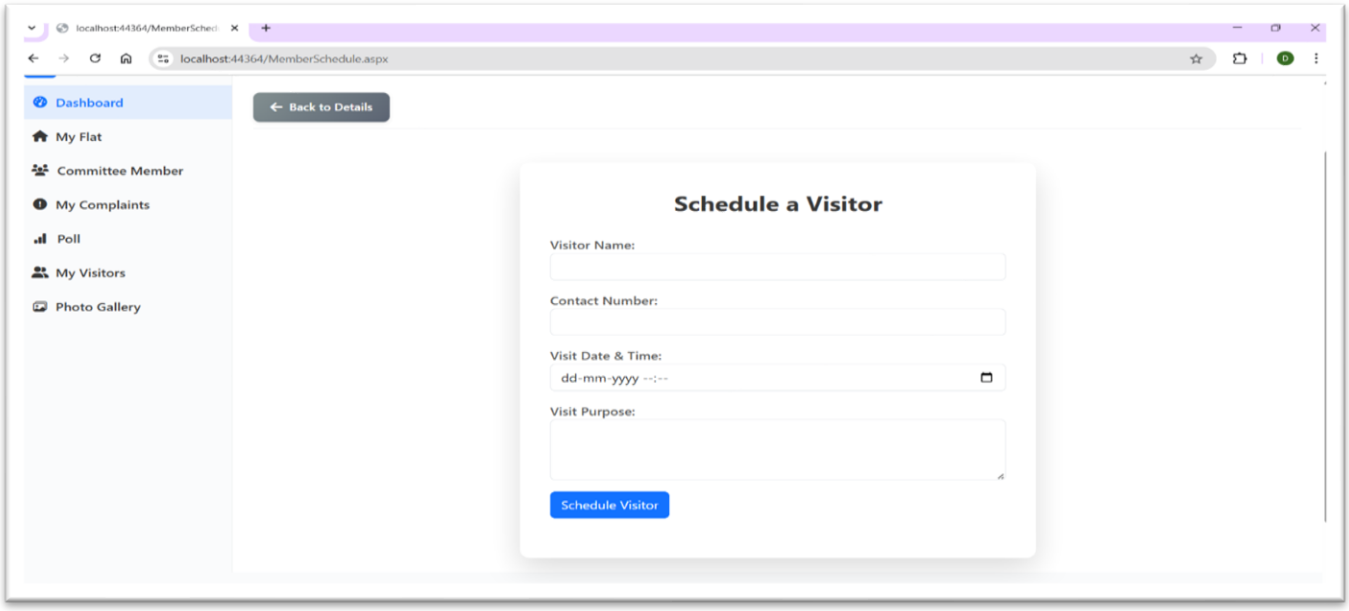

The purpose of the **Poll** page is to gather residents' opinions on community matters. If the user has already voted, the page shows a thank-you message, ensuring one response per user to maintain poll integrity.

## 14. Approve Visitors



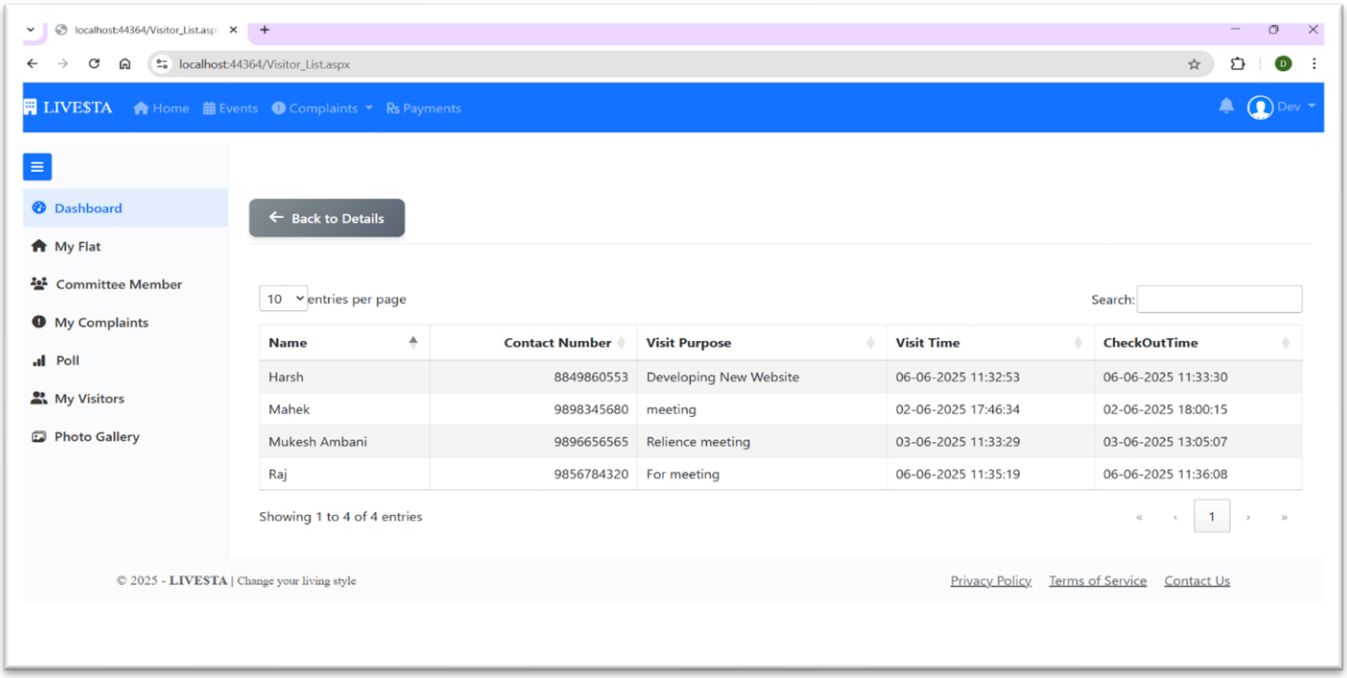

The purpose of this **Visitor Approval** page is to allow residents to approve or reject visitors scheduled to meet them. Only approved visitors are permitted entry into the society, ensuring safety and controlled access.

## 15. Add Scheduled Visitor




It allows users to pre-register visitors so they can enter without needing approval at the gate.

## 16. Visitor History Page

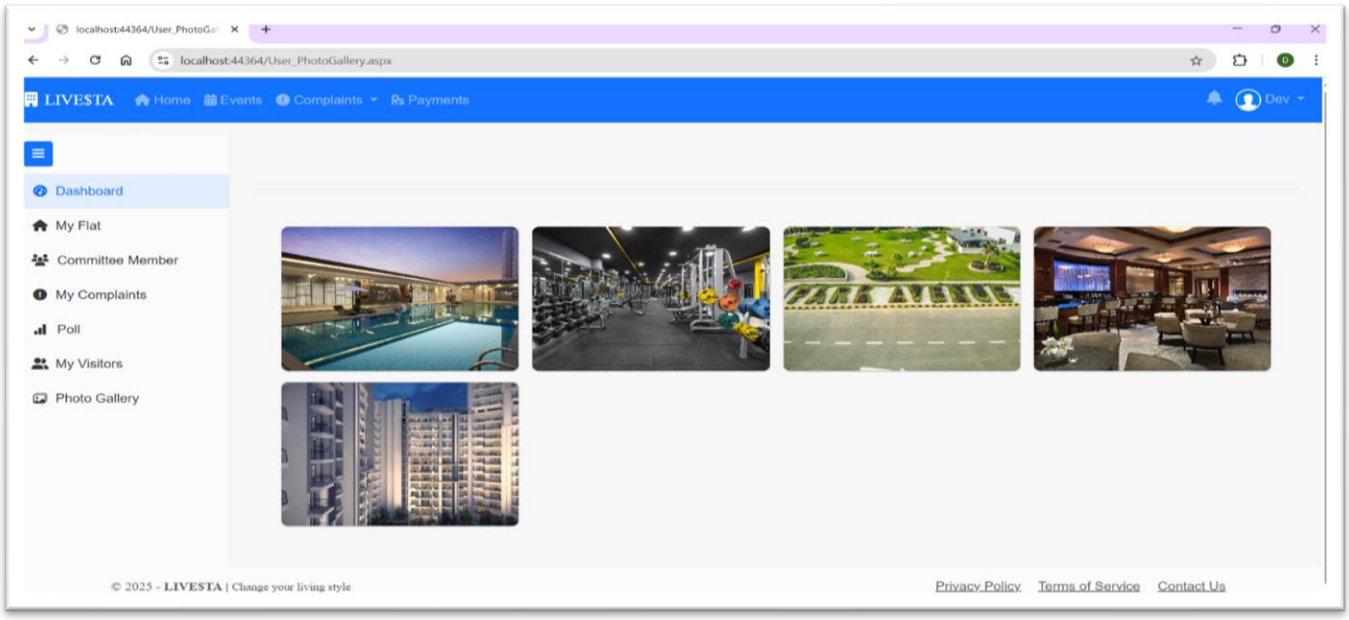



Allows users to view a record of all past visitors.

Displays details like name, contact number, visit purpose, and timings.

Helps maintain security and monitor visitor activity in the society.

## 17. Society Photo Gallery

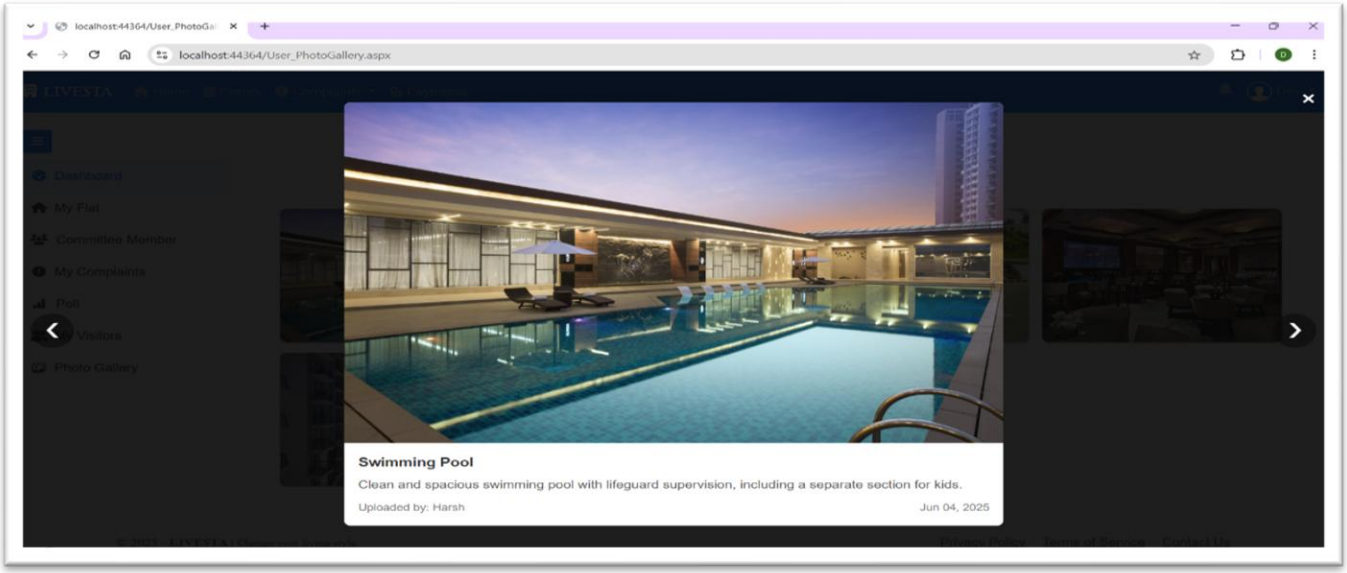



Allows users to visually explore various amenities and areas within the society.

Clicking on a photo provides more information about the location or facility.

Enhances user experience by showcasing the society's infrastructure and lifestyle.

## 18. Photo Gallery Details

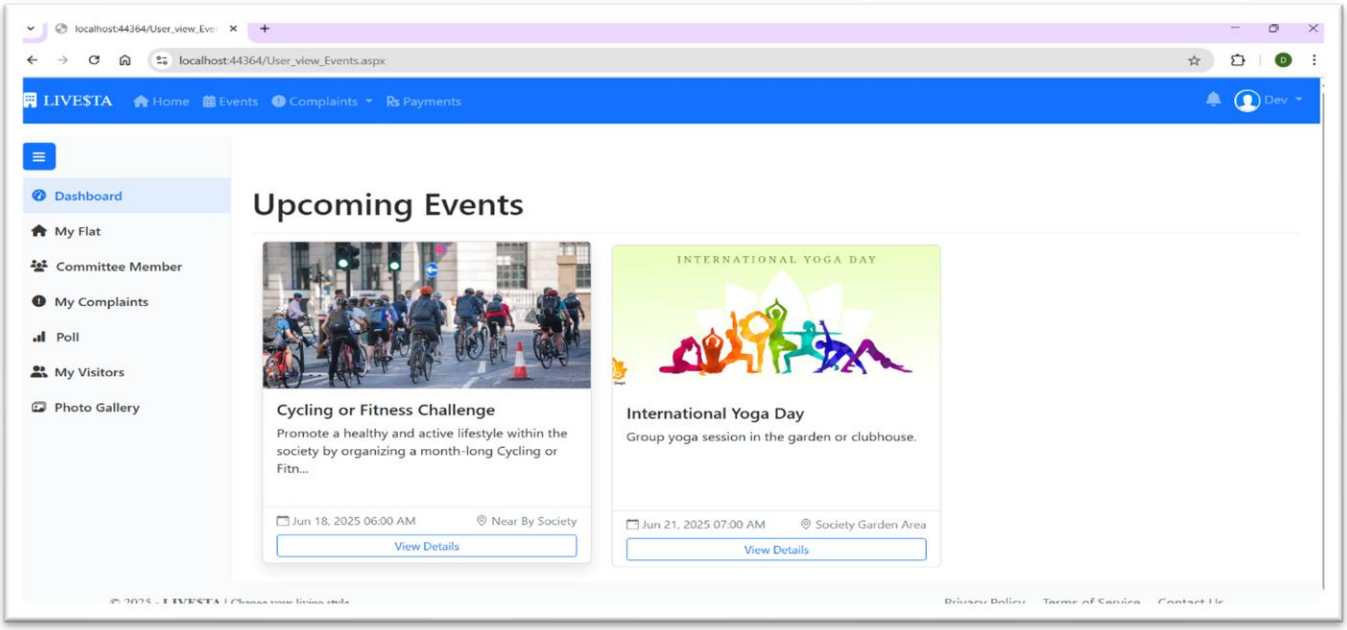



Displays an enlarged view of society amenities when a user clicks on a photo.

Shows detailed descriptions, uploader name, and upload date for each image.

Allows easy navigation between photos using left and right scroll controls.

## 19. Upcoming Events

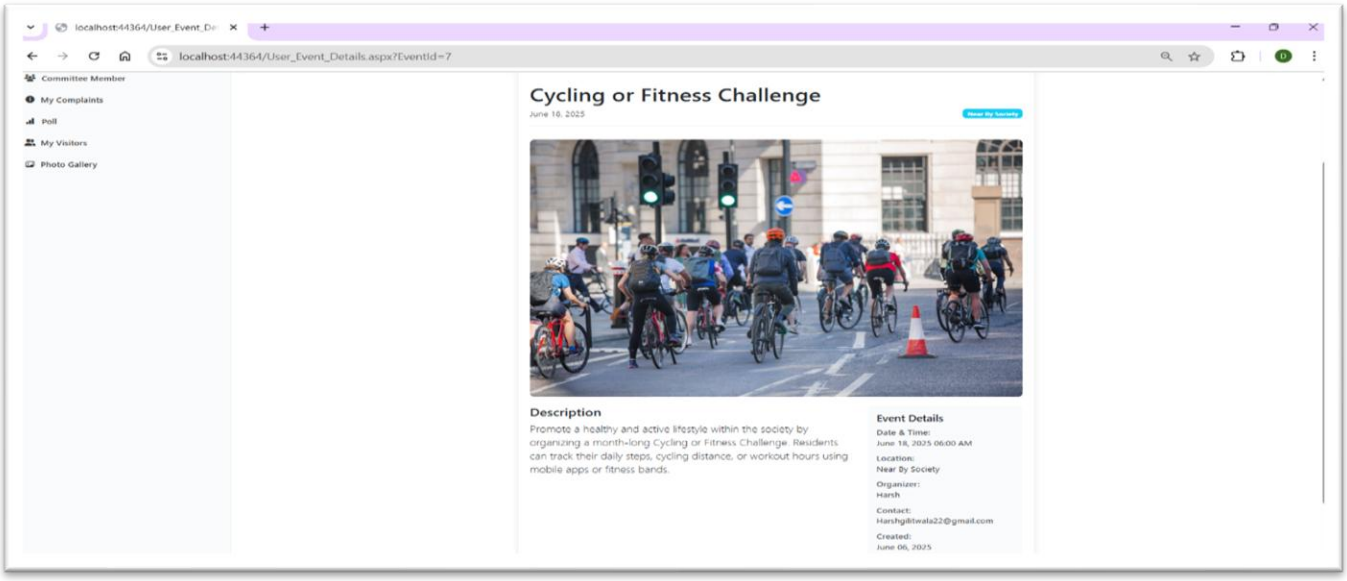



Showcases all scheduled events for society residents in a card layout.

Each card displays the event name, short description, date, time, and location.

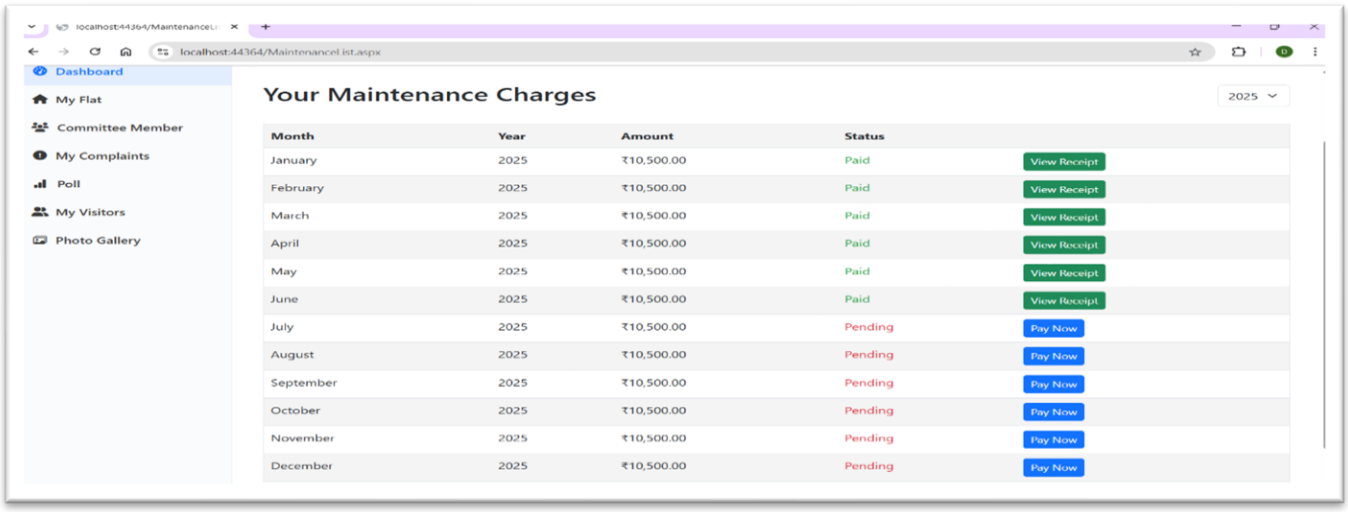
Allows users to click **"View Details"** to see more comprehensive information about each event.

## 20.Event Details




This page gives complete event details for user reference, including the **event overview, date, time, location, organizer, and contact info**.

## 21. Maintenance Charges



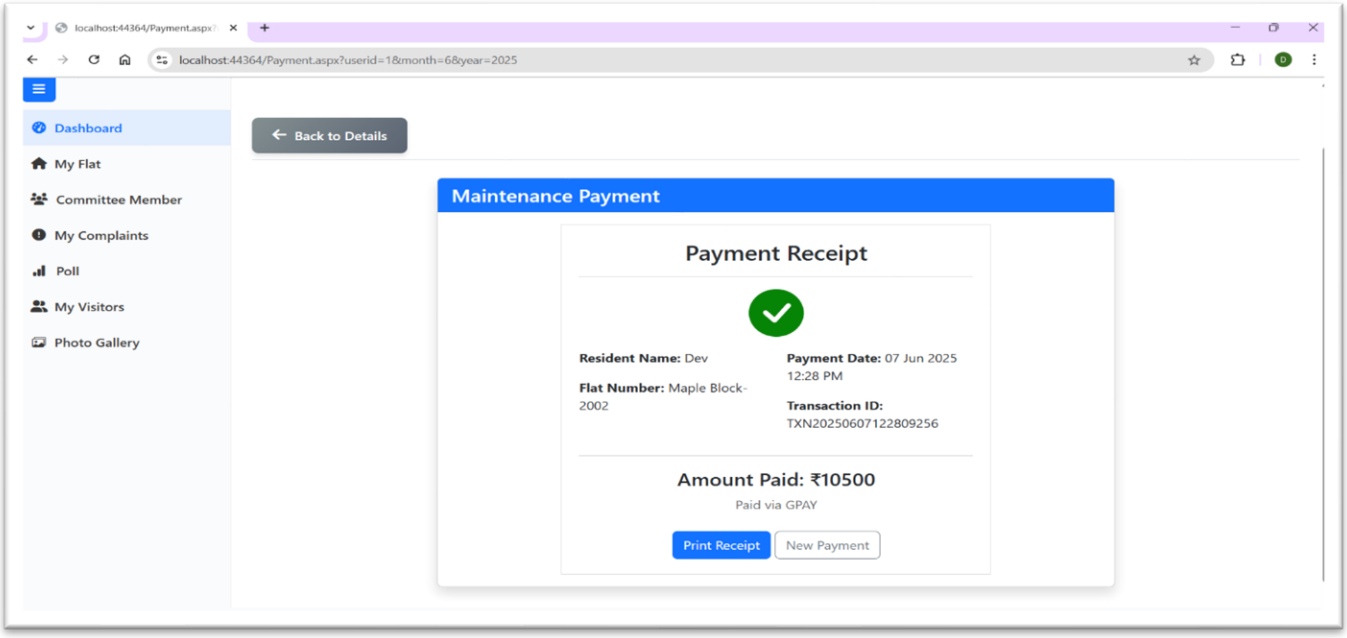

**Track monthly maintenance charges** for the year.

**Check payment status** (e.g., **Paid** or **Pending**).

**View receipts** for paid months using the **"View Receipt"** button.

**Make payments** for pending months via the **"Pay Now"** button.

## 22. Payment Receipt

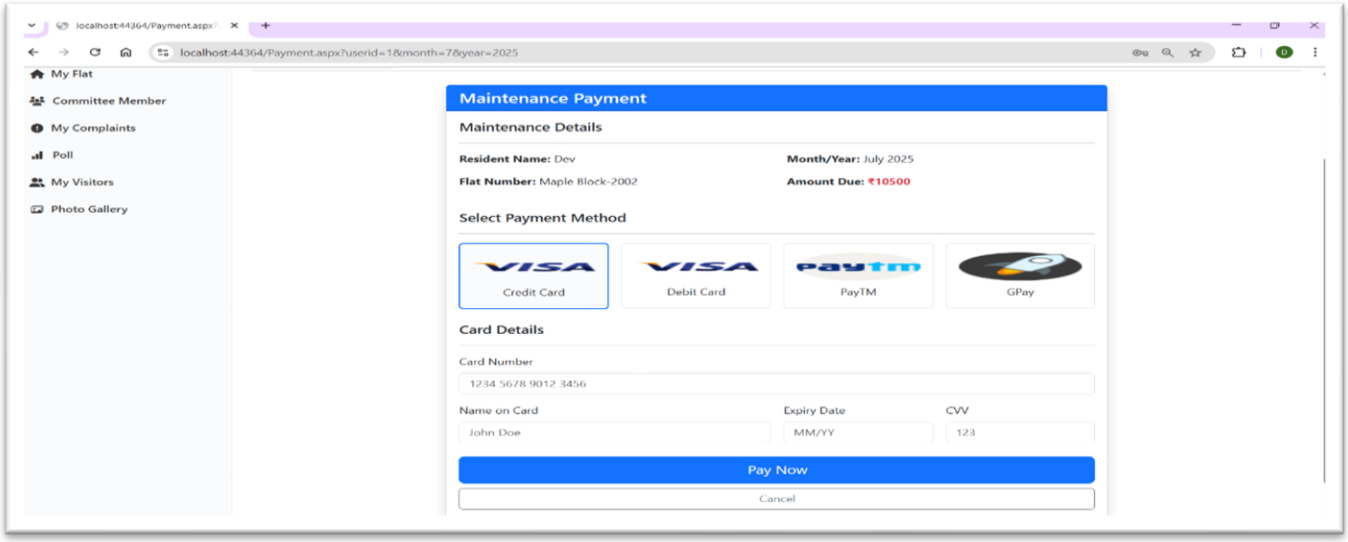



To display a **confirmation receipt** for a maintenance payment, including:

**Resident Name**, **Flat Number**, **Payment Date & Time**, **Transaction ID**, **Amount Paid, Payment Method**

The page also provides options to **Print the Receipt** or initiate a **New Payment**.

## 23. Maintenance Payment

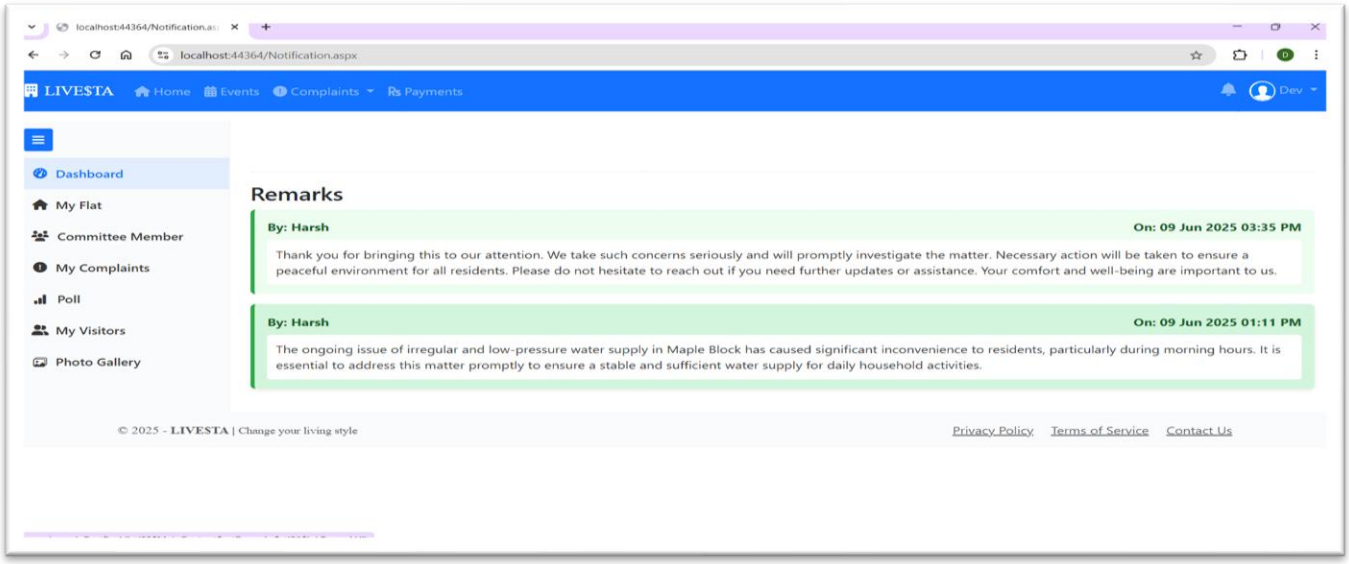



To allow the user to **pay their maintenance dues** by choosing from multiple payment methods. This page includes:

**Resident and Flat Details**, **Month and Amount Due**

**Payment Method Options**:
**Credit Card**, **Debit Card**, **Paytm**, **GPay**

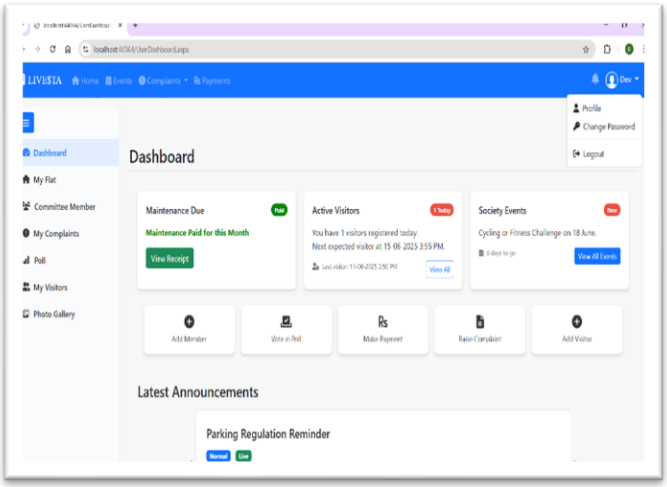
## 24. Complaint Remarks Notification

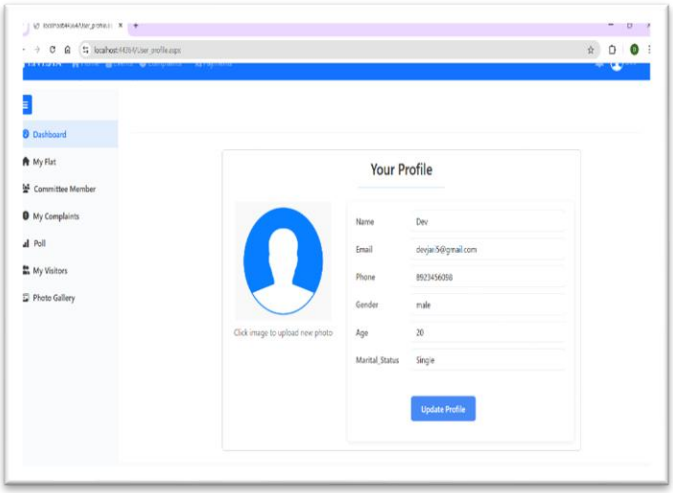



To **display administrative remarks** on the user's submitted complaints. This page allows users to:

- View responses or updates added by committee/admin members.
- See who made the remark and the exact time it was posted.
- Click on a specific remark to **navigate to the corresponding complaint details** for more information.

## 25. User Profile Management

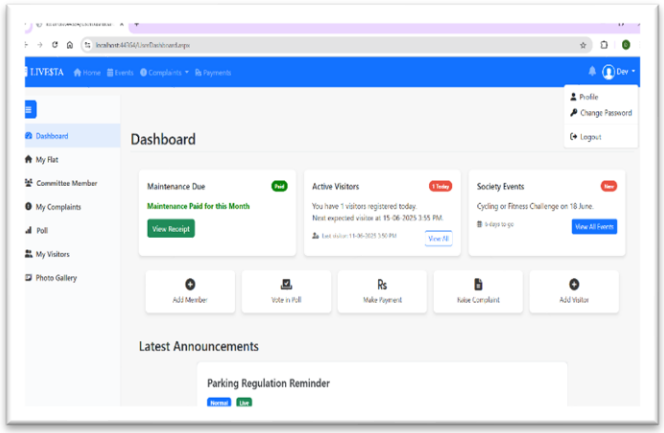


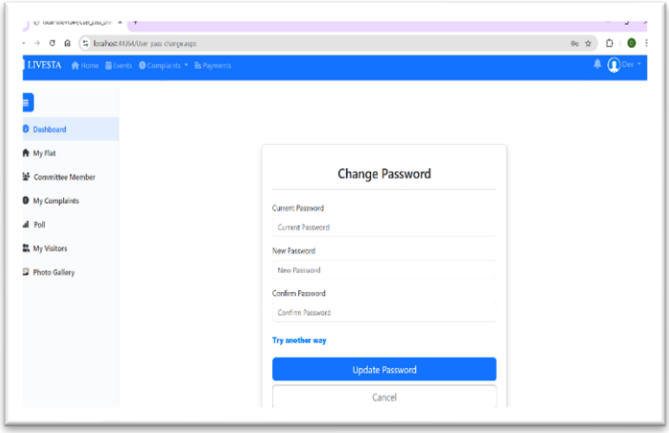




This page allows users to **view and manage their personal information** efficiently. Key functionalities include:

- **Viewing profile details** such as name, email, phone number, gender, age, and marital status.
- **Uploading or changing the profile picture** by clicking the placeholder image.
- **Editing personal information** directly in the form fields.
- **Saving updates** by clicking the **"Update Profile"** button.

## 26. Change Password Page



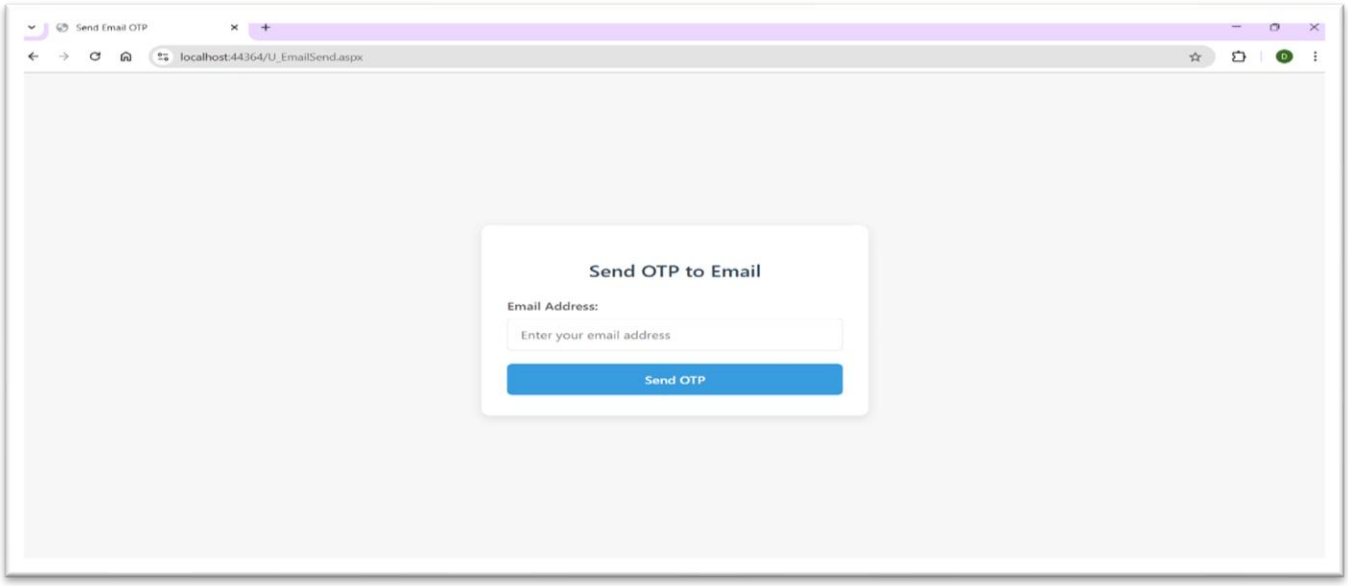

Allow users to securely update their **login credentials.**

Validates current password before updating.

Ensures new and confirm passwords match.

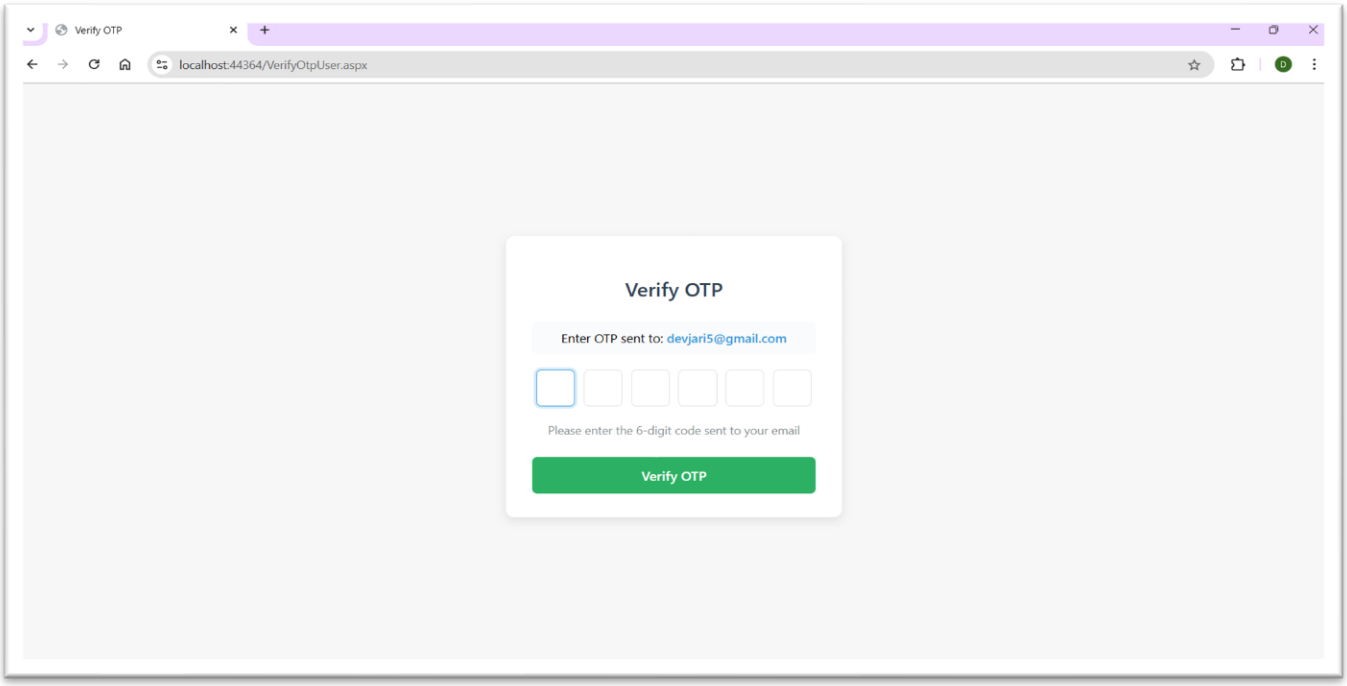
Enhances account security by allowing periodic password changes.

## 27. Send OTP to Email Page




To verify the user's identity by sending a One-Time Password (OTP) to their **current email address**.

## 28. Verify OTP Page

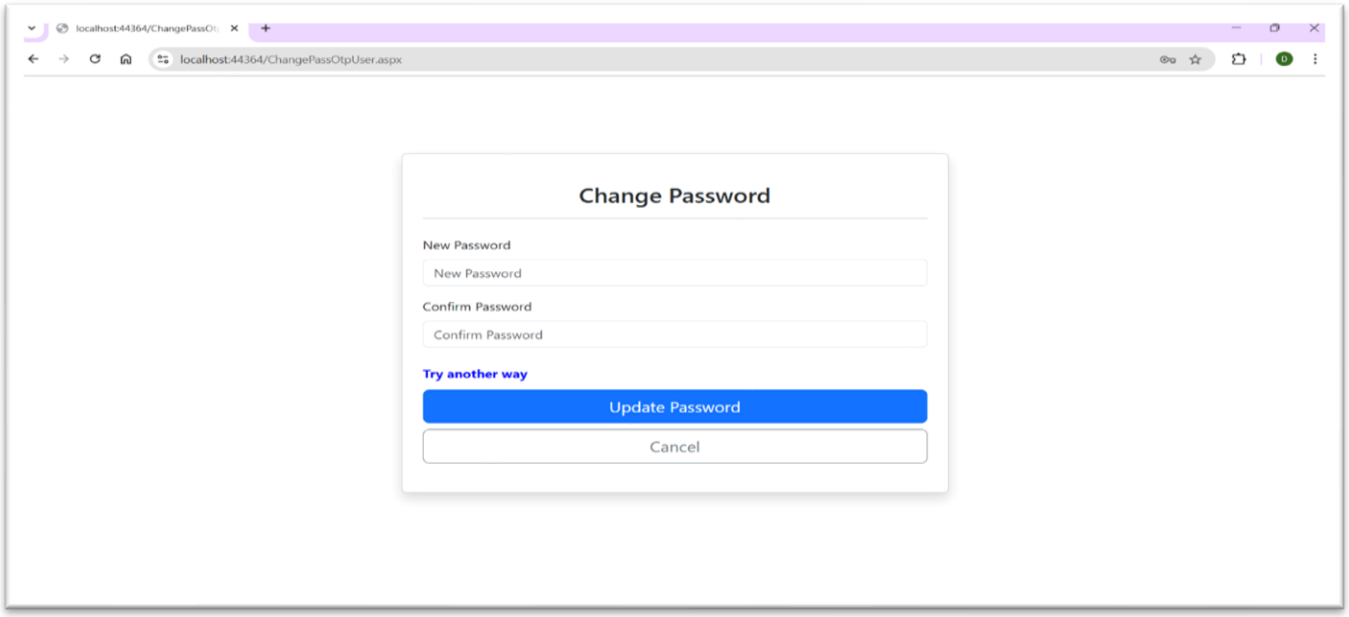



To validate the 6-digit One-Time Password (OTP) sent to the user's **email address** for verification.

If the OTP is correct → navigates to the **next step or profile update page**.

If incorrect → shows an **error message** like *"Invalid OTP, please try again."*

## 29. Change Password Page




Allow the user to **reset and update their password** after successful OTP verification.

## Conclusion

The development of the **Society Management System** serves as a comprehensive solution aimed at streamlining and digitizing the administrative and operational functions of residential societies. Through the integration of web-based technologies, the system effectively addresses critical aspects such as notice dissemination, complaint management, visitor scheduling, event coordination, and maintenance tracking.

The system has been developed using the **ASP.NET Framework** with **C#**, **JavaScript**, **AJAX**, **Bootstrap**, and **Microsoft SQL Server**, providing a robust, scalable, and user-friendly environment. The architectural design ensures role-based access control, real-time data interaction, and seamless communication between the society's administration and its residents.

The platform enhances transparency and operational efficiency by centralizing all key functions within an interactive dashboard interface. Residents are empowered to engage with society services digitally, while administrators are equipped with efficient tools to manage, monitor, and respond to day-to-day activities.

In summation, the project has successfully achieved its intended objectives and demonstrates the potential of technology in transforming traditional society management practices. It lays a solid foundation for further advancements, including mobile integration, online payment gateways, and automated notification systems. The system thus stands as a viable and impactful digital solution aligned with the evolving needs

## Future Scope

of modern community living.

While the current Society Management System successfully fulfils the essential functions of digital society management, there are several areas where it can be enhanced further to make it more dynamic, scalable, and user-friendly:

### 1. Mobile Application Integration

- Develop **three separate mobile apps** for:
  - **Admin**: Manage notices, events, complaints, visitors, and maintenance remotely.
  - **User (Residents)**: View notices, raise complaints, schedule visitors, view events, and pay maintenance.
  - **Staff (Security, Maintenance, etc.)**: Manage visitor entries, update task statuses, mark attendance.
- All apps will connect to the **same centralized database and backend**, ensuring real-time sync and role-specific features.
- Platform: Android (Java/Kotlin) and iOS (Swift/Flutter).

### 2. SMS & Email Notification System

- Automatic alerts for new notices, complaint status updates, visitor approvals, and maintenance reminders.

- Reduces communication gap and ensures residents never miss updates.

### ◇ 3. Online Payment Gateway Integration

- Allow residents to pay maintenance fees online via UPI, net banking, or cards.
- Generate automatic receipts and maintain transaction logs.

### ◇ 4. Advanced Role-Based Access Control

- Introduce new roles like **Secretary**, **Treasurer**, **Security**, etc.
- Each role will have specific dashboards and permissions.

### ◇ 5. QR Code / OTP-based Visitor Entry System

- Integrate with security staff app for scanning QR codes generated by residents.
- Alternative OTP system for manual verification at the gate.

### ◇ 6. Push Notifications in Web & Mobile

- Instant in-app and mobile push notifications for notices, complaints, events, and maintenance alerts.

### ◇ 7. Data Analytics and Reporting

- Generate PDF reports for complaints, payments, visitor logs.
- Visual dashboards with filters (by month, user, flat, etc.)