



CommUnity

*Seamless Community Interaction
and Management*

Effortless Administration, Seamless Communication, and Smarter Living!

Introduction

CommUnity is a modular, multi-tenant Community Management System designed to simplify housing society management. It connects members, streamlines daily activities, and enhances communication between residents and administrators. With an intuitive interface, the platform ensures efficient management of apartments, resident profiles, and society operations, making community living more organized and hassle-free.



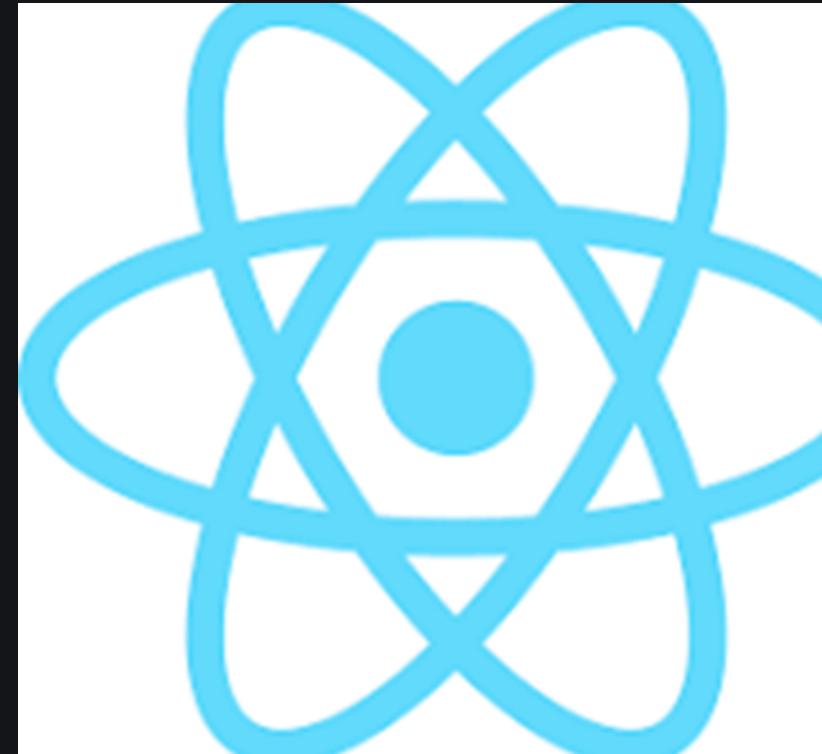
SCIM

Objectives

- Provide a platform that simplifies housing society management and enhances communication between residents and administrators.
- Increase resident participation in community activities through events, polls, clubs, and social interactions.
- Facilitate transparent financial transactions with easy bill generation, online payments, and payment tracking.
- Ensure easy access to emergency contacts and security personnel information, enhancing the overall safety and security within the community.

Technology Stack

Frontend - React



Backend - Spring Boot



Database - MongoDB



Dynamic and responsive UI

Secure and scalable backend

Flexible and efficient data storage

Milestones

- Milestone 1 – User Authentication & Registration
- Milestone 2: Resident and Society Management
- Milestone 3: Event and Notice Management
- Milestone 4: Maintenance Payment System



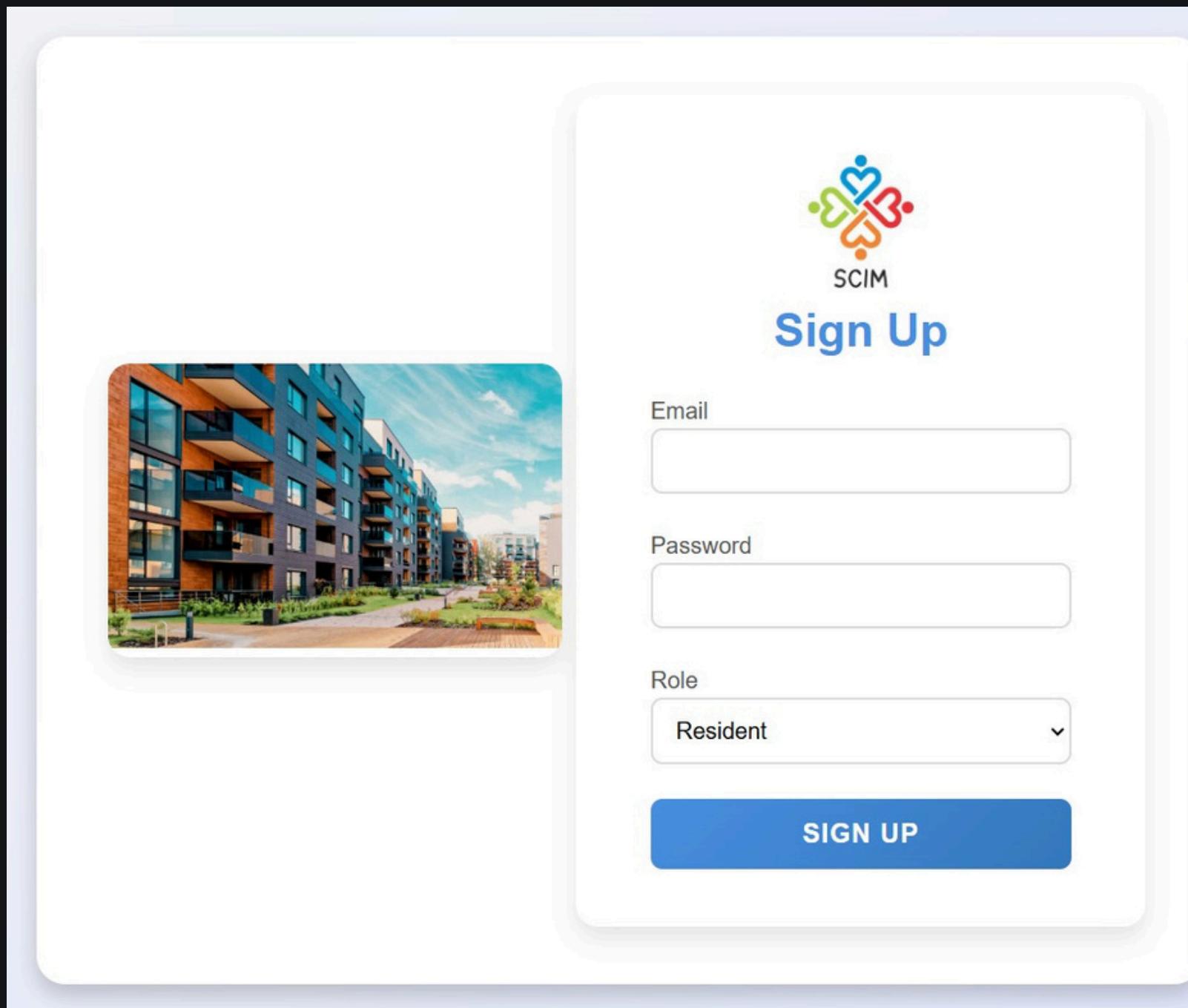
SCIM

Milestone 1

Milestone 2

Milestone 3

Milestone 4



The image shows a screenshot of a web-based sign-up form for SCIM. At the top right is the SCIM logo. Below it, the word "Sign Up" is displayed in a large, bold, blue font. To the left of the form is a photograph of a modern residential complex with multiple apartment buildings and landscaped grounds. The form itself has a white background with rounded corners. It contains the following fields:

- Email: A text input field.
- Password: A text input field.
- Role: A dropdown menu currently set to "Resident".

A large blue button at the bottom of the form is labeled "SIGN UP".

Division Overview

Key Achievements

Current Initiatives

Challenges and Solutions

Future Plans

Metrics and Performance

Conclusion

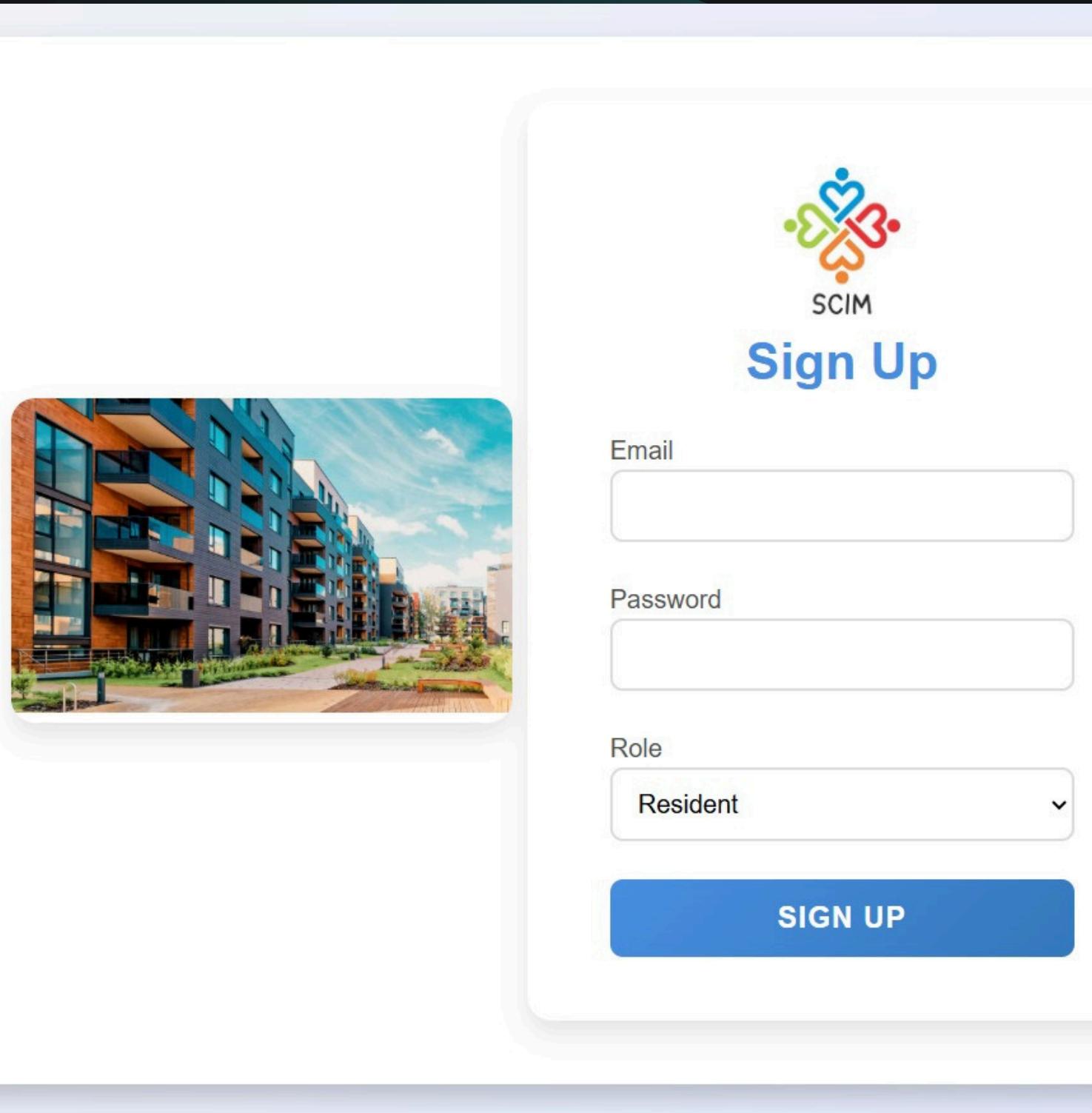


Milestone 1 – User Authentication & Registration

- **User Signup & Login Page** – Implemented a secure registration and login system.
- **JWT-Based Authentication** – Ensured safe access for users with token-based security.
- **Resident & Admin Role Management** – Enabled different access levels based on user roles.
- **Profile Details Filling** – Users can enter and manage their personal information.

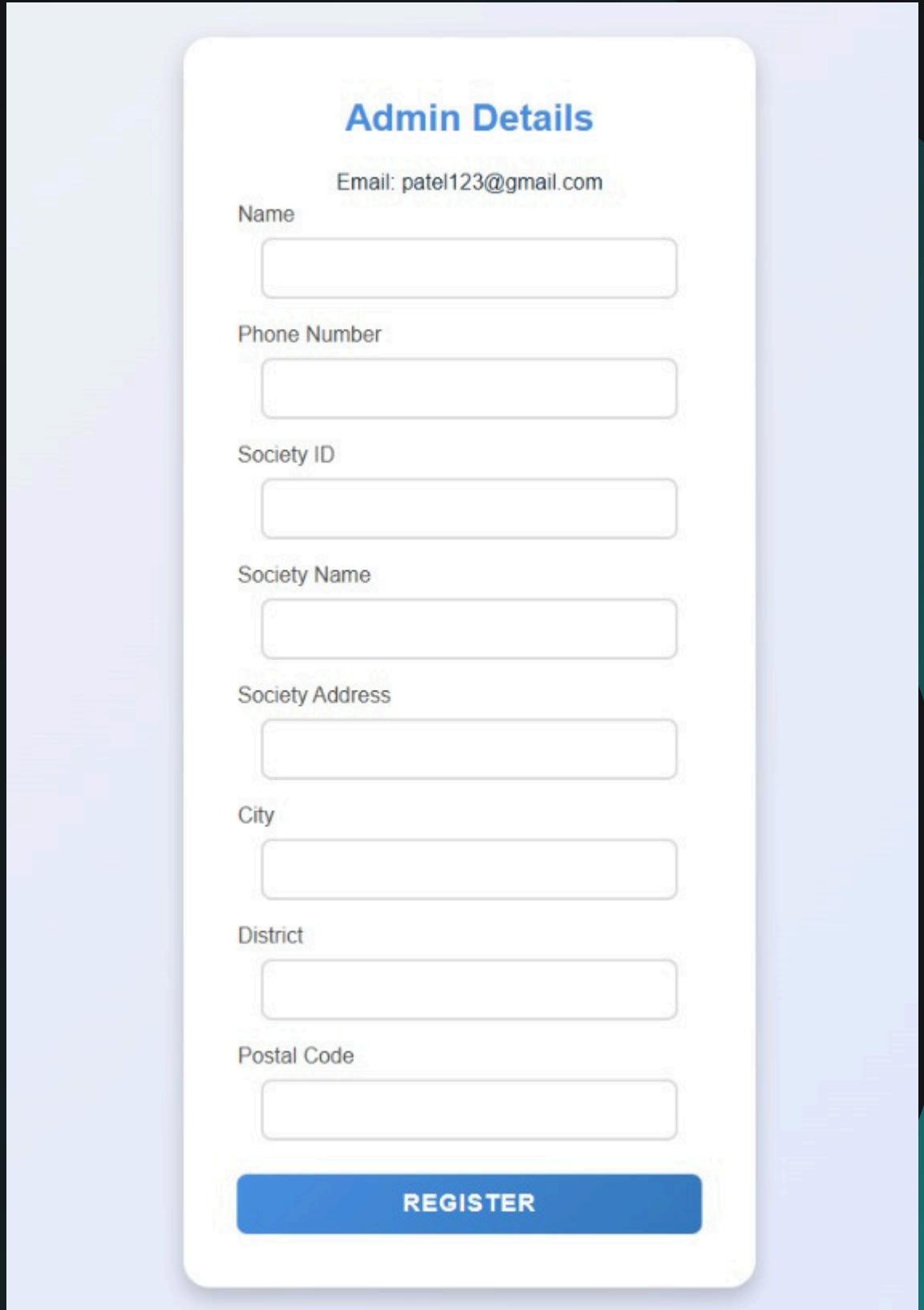
SIGNUP AND LOGIN :

- The Signup page allows new users to create an account.
- The Login page enables existing users to access their accounts securely.
- **Secure Registration:** Users can sign up using their email and password.
- **Role Selection:** Residents and admins can choose their respective roles for personalized access.



ADMIN DETAILS:

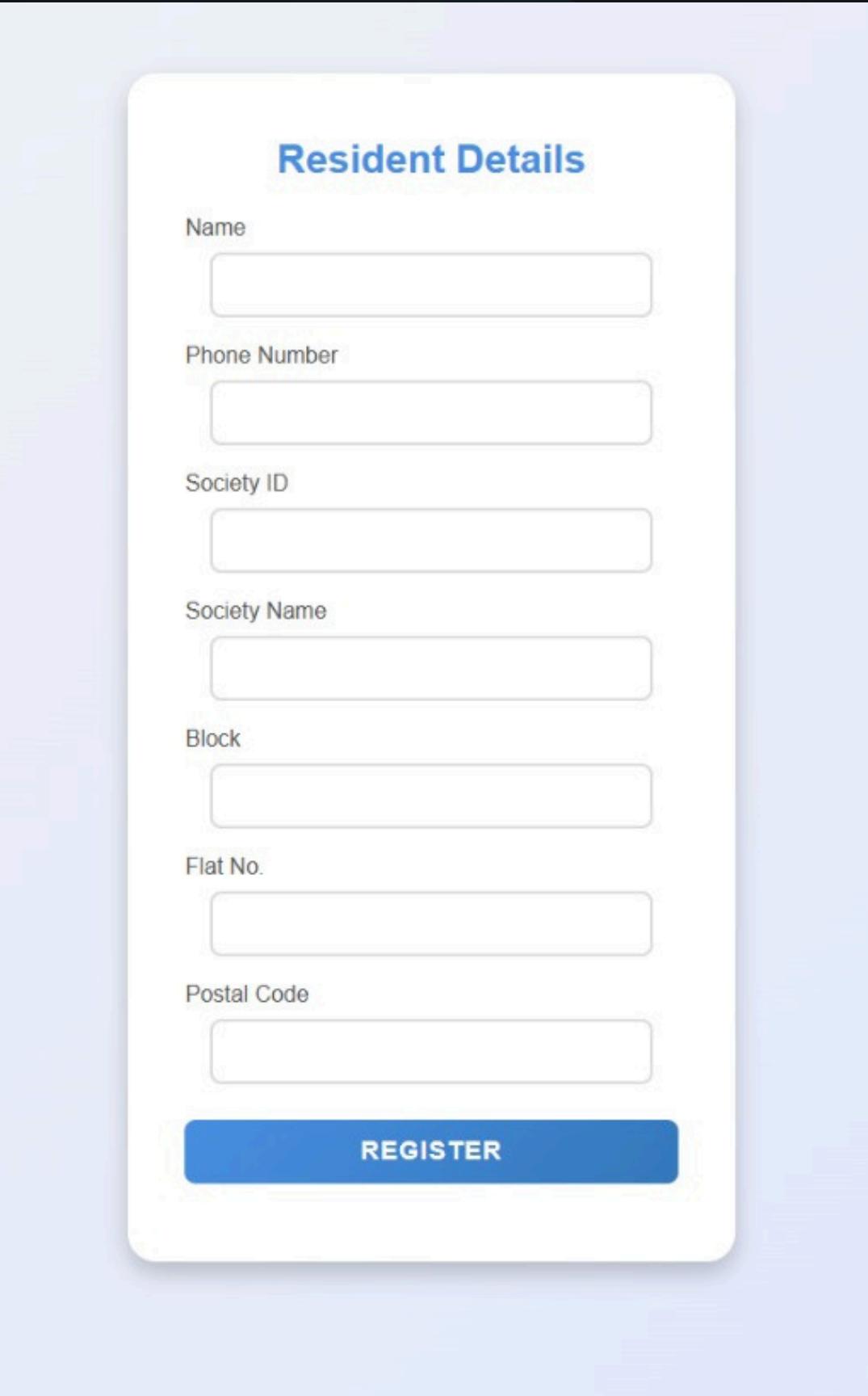
- **Admin Registration:** Collects essential details for admin verification.
- **Secure Data Collection:** Includes name, contact, address, and unique society ID.
- **Data Monitoring** – Track user activity and system logs.
- **User Management** – Add, remove, and update user accounts.



The image shows a mobile application interface titled "Admin Details". At the top, it displays the email address "Email: patel123@gmail.com". Below this are eight input fields for collecting administrative information: Name, Phone Number, Society ID, Society Name, Society Address, City, District, and Postal Code. A large blue "REGISTER" button is located at the bottom of the form.

RESIDENT DETAILS:

- **Resident Registration:** Captures essential details for user identification.
- **Society Association:** Links residents to their respective societies.
- **Detailed Information:** Includes name, contact, block, flat number, and postal code.
- Admin access is high-level, while residents have limited access to personal data.



The image shows a mobile application interface titled "Resident Details". The form consists of several input fields: Name, Phone Number, Society ID, Society Name, Block, Flat No., and Postal Code. Each field is accompanied by a placeholder text and a clear button. A large blue "REGISTER" button is located at the bottom right of the form area.

Division Overview:

- Implement secure authentication and user registration.

Key Achievements:

- **Improved Security** – Protects user data.
- **Smooth Experience** – Easy signup and login.
- **Access Control** – Prevents unauthorized use.
- **Privacy Compliance** – Ensures data safety.
- **User Trust** – Enhances platform reliability.

Current Initiatives:

- Enhancing security with role-based access control.
- Verifying every login attempt for security

Challenges and Solutions:

- Challenge: Preventing unauthorized access and weak password.
- Solution: Implemented token expiration and Enable MFA

Future Plans:

- Biometric Authentication – Integrating fingerprint, facial recognition, and voice authentication for enhanced security
- AI-Based Fraud Detection – Using machine learning to detect suspicious login patterns and prevent unauthorized access.
- Captcha Verification: Prevents spam and bots.

Conclusion:

- A well-structured system with clear admin and residence details ensures efficient management, security, and smooth operations, benefiting both administrators and residents. Security is not just an option—it's a necessity



SCIM

Milestone 1

Milestone 2

Milestone 3

Milestone 4



Residents of the society Labh



Residents of the Society

Dashboard

Request Services

Complaints

Events

Notices

Posts

Parking

Emergency Contacts

Billings

Logout

Welcome, Labh!

Email: patellabh123@gmail.com

Role: Admin

Phone: 8200716230

Society ID: 07

Society Name: sankalp

Admin Profile

Society Address: AT Gujarat

City: visnagar

District: mehsana

Postal Code: 384315

Close

A

Block B

Division Overview

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SCIM

Milestone 2

Milestone 2 – Resident & Society Management

Division Overview:

- **Admin Dashboard:** Allows admins to add and manage society blocks and flats efficiently.
- **Resident Profiles:** Enables viewing and updating resident details, ensuring accurate society records.
- **Structured Database Management:** Organizes society, flat, and resident information for seamless accessibility.
- **Improved Administration:** Enhances society operations by providing a centralized system for resident data management.

Key Achievements:

- Designed database schema for society and residents.
- Enabled society admins to add/update resident details.
- Created a user-friendly dashboard for admins to manage societies.
- Implemented flat allocation and resident movement tracking.

Current Initiatives:

- Enhancing user experience with intuitive UI/UX for admin and resident interactions.

Challenges and Solutions:

- Challenge: Managing large volumes of resident and apartment data efficiently without slowing down the system.
- Solution: Divided data into blocks and apartments and optimized database queries for better performance.

Future Plans:

- Introduce notifications for resident approvals.
- Optimize database structure and enable cloud-based scaling for future expansion.

Metrics and Performance:

- Admin efficiency: Reduced manual effort by 40%.

Conclusion:

- User Profiles ensure accurate resident records, allowing seamless updates and better engagement.
- Apartment Management provides a structured approach to handling society blocks, flats, and ownership details efficiently.



SCIM

Milestone 2

Residents of the society Labh

Residents of the Society

Apartments

Search residents... Block A Block B

komal
Email: komal123@gmail.com
Block: A
Flat No: 123
Phone: 8200716230
Role: Resident

Bhagy
Email: patelbhagy123@gmail.com
Block: A
Flat No: 07
Phone: 8200716230
Role: Resident

Dashboard Request Services Complaints Events Notices Posts Parking Emergency Contacts Billings Logout

Residents of the society Labh

Residents of the Society

Apartments

Block B

Edit Resident Details

Name: komal

Block: A

Flat No: 12

Phone: 8200716230

Cancel Save Changes



SCIM

Milestone 1

Milestone 2

Milestone 3

Milestone 4

Events

Society Events

+ Add Event

March 2025

today

month week day

Sun	Mon	Tue	Wed	Thu	Fri	Sat
23	24	25	26	27	28	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	1	2	3	4	5

Dashboard

Request Services

Complaints

Events

Notices

Posts

Parking

Emergency Contacts

Billings

Logout

Division Overview

Key Achievements

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Challenges and Solutions

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Milestone 3: Event and Notice Management

Division Overview:

- Enable event posting, notices, and complaint tracking.

Key Achievements:

- Implemented an interface for admins to post events and notices.
- Developed a complaint and service request system.
- Designed a role-based access system for event creation and modification.
- Developed a ticketing system for tracking complaints and requests.

Current Initiatives:

- Improving response time for service requests.

Challenges and Solutions:

- Challenge: Tracking complaint resolution status.
- Solution: Implemented a real-time status update system.

Future Plans:

- Automate complaint assignment.
- Enabled residents to provide feedback on events.
- Integrated email and push notifications for event updates.

Metrics and Performance:

- 80% of complaints resolved within 48 hours.

Conclusion:

- Seamless event, notice, and complaint management system in place.



SCIM

Milestone 3



Add New Event

Image URL

Event Title

Start Date

End Date

All Day Event

Description

Labh

+ Add Event

week day

Fri	Sat
28	1
7	8
14	15
21	22
28	29
4	5

Events komal

Society Events

< > today March 2025 month week day

 Internship Final Assessment

Internship Final Assessment

Date: 4/1/2025 to 4/3/2025

Description: All team need to demonstrate their project work

Sun	Mon	Tue	Wed	Thu	Fri	Sat
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
1	2	3	4	5	6	7

Internship Final Ass



SCIM

Milestone 3

Parking Management

Failed to load parking data

+ Add Space Show Stats

Dashboard Request Services Complaints Events Notices Posts **Parking** Emergency Contacts Billings Logout

Search by ID or resident... All Blocks

17 Block: A Flat: B 12 Resident: Harish	12 Block: A Flat: 123 Resident: Komal
7 Block: B Flat: 18 Resident: Ajay	

Dismiss

Parking Management

Parking Utilization

All Blocks	Block A	Block B	Block C
Total Spaces: 3 Occupied: 0 Available: 3 0% occupied	Total Spaces: 2 Occupied: 0 Available: 2 0% occupied	Total Spaces: 1 Occupied: 0 Available: 1 0% occupied	Total Spaces: 0 Occupied: 0 Available: 0 0% occupied

Search by ID or resident... All Blocks



SCIM

Milestone 1

Milestone 2

Milestone 3

Milestone 4

- Dashboard
- Request Services
- Complaints
- Events
- Notices
- Posts
- Parking
- Emergency Contacts
- Billings

Billings

Billing Information

Current Month

Maintenance

₹2,500

Due: Invalid Date

Paid

Water Bill

₹800

Due: Invalid Date

Pay ₹800

Electricity (Common)

₹350

Due: Invalid Date

Pay ₹350

Payment History

No payment history available

Division Overview

Key Achievements

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SCIM

Milestone 4

Milestone 4: Maintenance Payment System

Division Overview:

- This module automates maintenance bill generation, enables secure online payments, and ensures transparency for both residents and admins.

Key Achievements:

- Secure payment gateway integration..
- Real-time payment tracking dashboard.

Current Initiatives:

- Integrating multiple payment gateways for flexibility

Challenges and Solutions:

- Late Payments: Solved with auto alerts & late fee tagging
- Manual Errors: Fixed via auto-calculated billing templates

Future Plans:

- Auto-generated monthly/yearly financial reports
- Auto bill creation based on flat type.

Metrics and Performance:

- Successful Online Payment Rate: 95%

Conclusion:

- The Maintenance Payment System ensures transparent, timely, and efficient financial management within the community.



SCIM

Milestone 4

Billings

Society Maintenance

Price Summary
₹2,500

Using as +91 82001 76230

Secured by

Payment Options

Cards Add a new card

4111 1111 1111 1111 VISA

12 / 26

Resident

Save this card as per RBI guidelines

Continue

Test Mode

Billings

Society Maintenance

Price Summary
₹2,500

Using as +91 82001 76230

Secured by

You will be redirected in 3 seconds

Payment Successful

Society Maintenance ₹2,500

Apr 8, 2025, 9:17 PM

Card | pay_QGcNoK4jemCvdg

Visit razorpay.com/support for queries

Secured by

Test Mode

Conclusion

CommUnity successfully streamlines society management by integrating apartment management, resident profiles, and administrative tools into a single, efficient platform. With a user-friendly interface, structured data handling, and seamless communication, it simplifies daily operations for both residents and administrators.

Thank You