



SOCIETY MANAGEMENT PORTAL

Submitted by: Swagatam Bardhan, Anisha Kewat, Saurabh Randive (Group-2)

Submission type: Group

Batch: 12

Program: Axis Bank - Fintech

Date:

Source Code: <https://github.com/Developerswagatam/Society-Management-Portal>

A screenshot of a video conferencing interface. At the top, there are standard video controls (mute, camera, 08:11). Below them is a toolbar with icons for Chat (with 8 messages), People (8 participants), Raise hand, React, View, and More. The main video frame shows a man with glasses and a brown shirt. Below his video, a blue box displays the text "saurabh (Guest)". To the right of the video frame, there are two circular icons: one for "Akash1 Shah" and another with three dots labeled "View all". In the bottom right corner of the video frame, there is a small circular badge with the letter "A". The background of the video frame is the same orange gradient as the presentation slide above.

Contribution in the Project

| Team Members | Back_End | Front-End | Documentation |
|------------------|--|--|--------------------------|
| Swagatam Bardhan | Accounts Events Voting Residents Committee Security Reminder | Amounts Events Voting Login Home | |
| Anisha Kewat | Bulletin Complaint Suggestion | Bulletin Complaint Suggestion Profile Home | User Story |
| Saurabh Randive | | Registration | PPT ER-Diagram FRD |

Introduction

- The NeiGhborNet simplifies and enhances societal operations by providing online features such as voting, hall allocation, and complaint registration. It automates bulletins and facilitates easy access to society information. The system saves time, money, and energy by electronically storing all transactions.
- Its goal is to streamline day-to-day society management and promote efficiency.



FUNCTIONAL OVERVIEW

- Resident Login/ Registration
- Voting System
- Event Scheduling
- Bulletin Box
- Complaint and Suggestion Box
- Accounting
- Committee access to handle the Voting, Complaint, Bulletin etc.



TECHNOLOGY OVERVIEW

1. Front-end:

- React.js (Visual Studio Code)

2. Back-end:

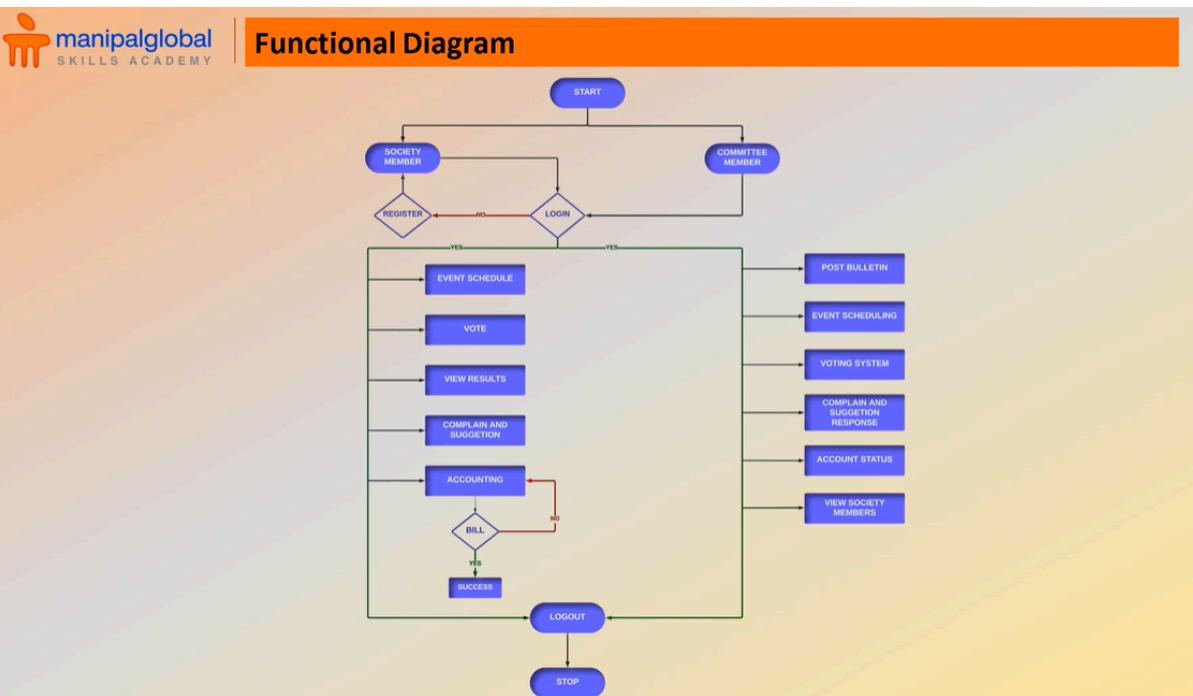
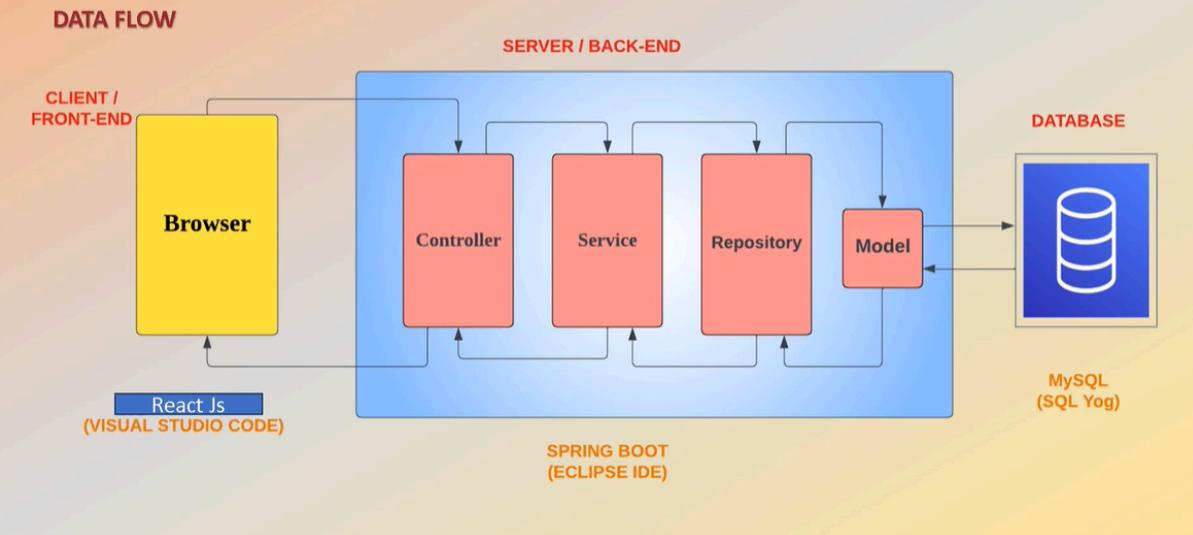
- Spring boot, Java (Eclipse IDE)

3. Database:

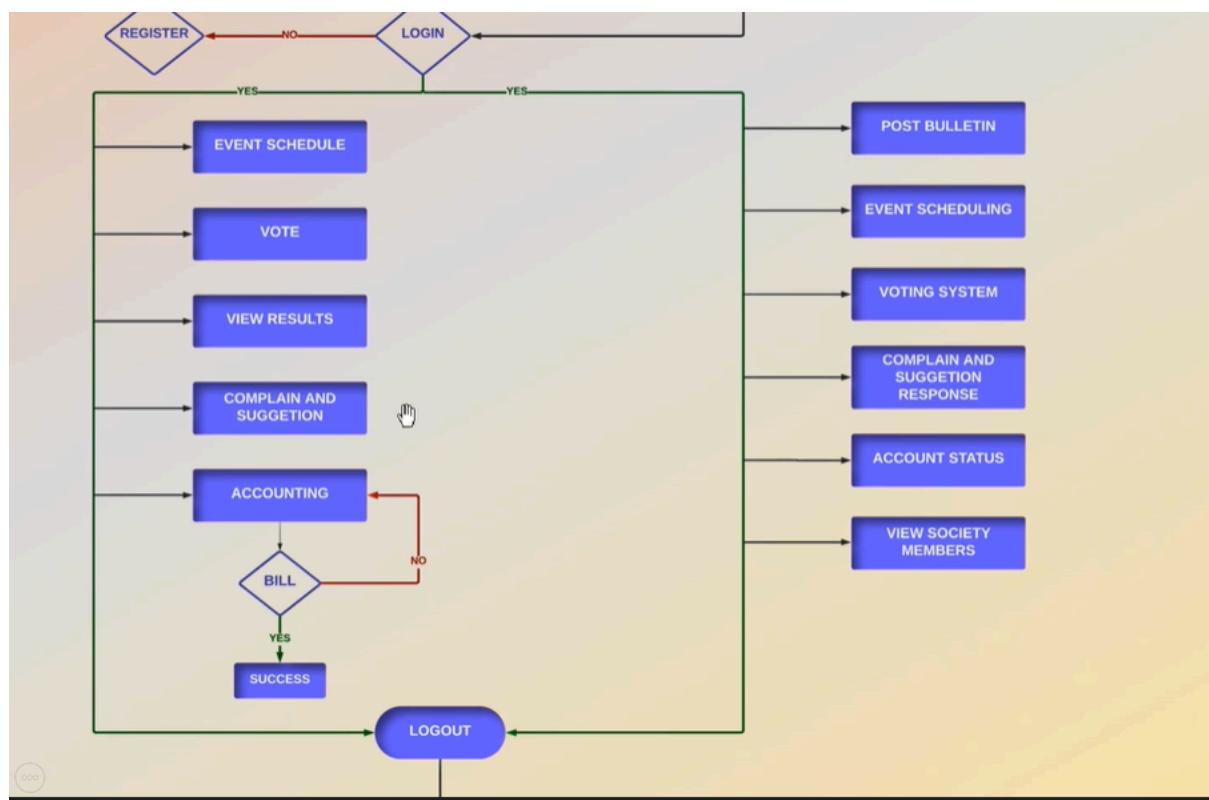
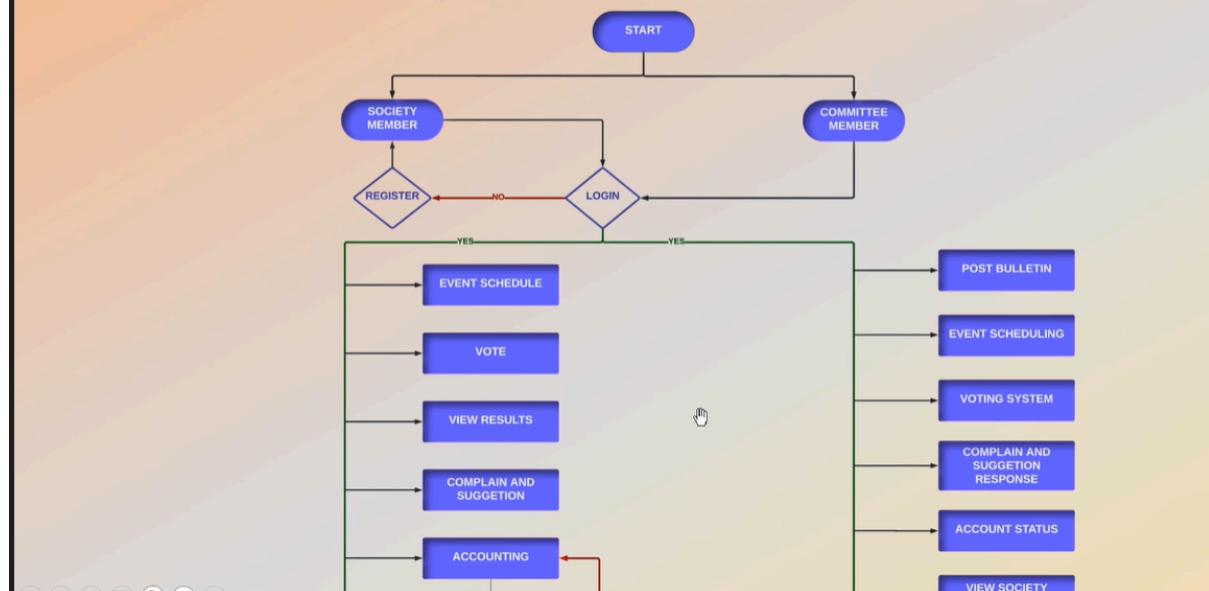
- MySQL (SQL Yog)

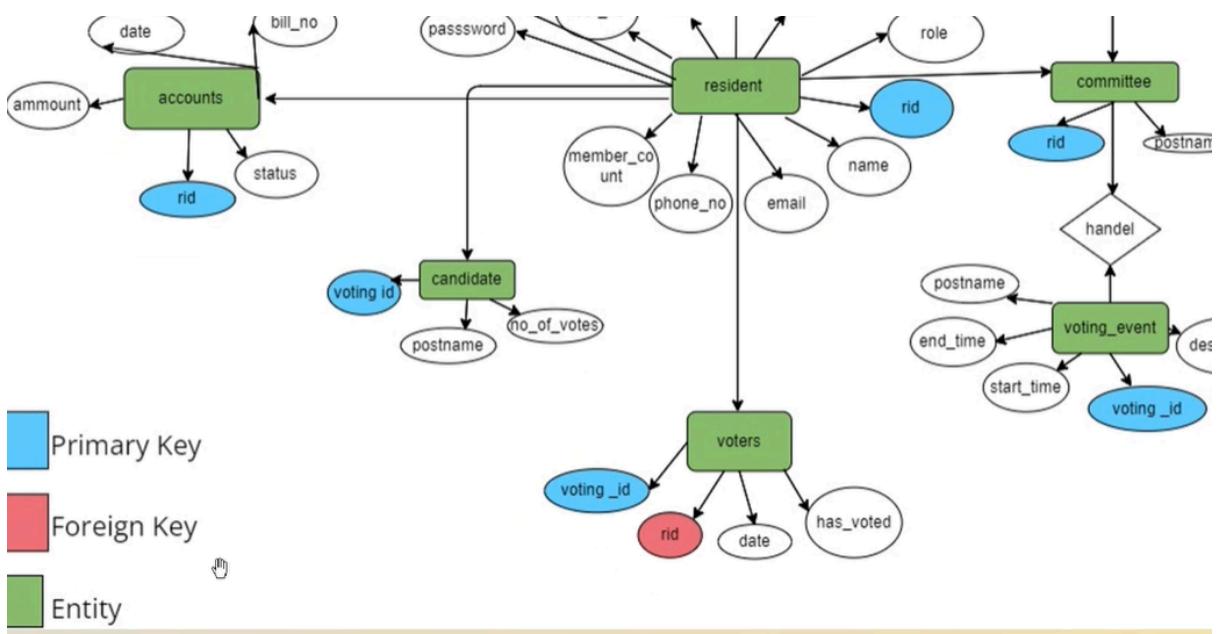
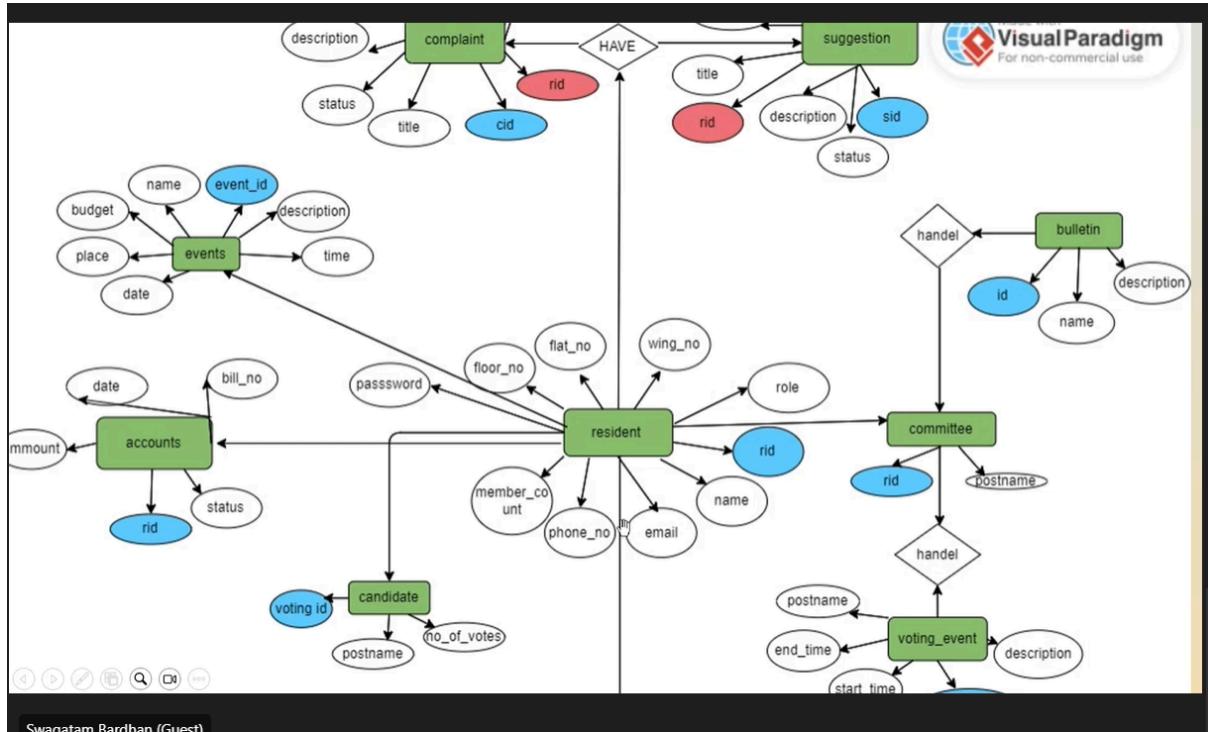
4. Postman:

- For API testing



Functional Diagram





This Implemented the concept of Monolithic Architecture in the back-end architecture:

- API
- Lombok
- Spring JPA
- Cross-Origin Resource Sharing (CORS)
- Spring Security
- Spring Web
- Spring Dev Tools



The society management portal, built using Spring Boot and React JS, along with security features, offers a comprehensive solution for efficiently managing society operations. With JWT security measures, seamless integration between the backend and frontend, and streamlined development capabilities, it enables effective management of society activities while ensuring data protection and user authentication.



manipalglobal
SKILLS ACADEMY

Future Work

1. Integration with Payment Gateways for online transactions.
 2. Visitor Management System
 3. Role based Responsibility
 4. Mobile App Development



SMP Eclipse - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Project Explorer X Demo [boot] [devtools] [Society Mngmt Portal master]

```

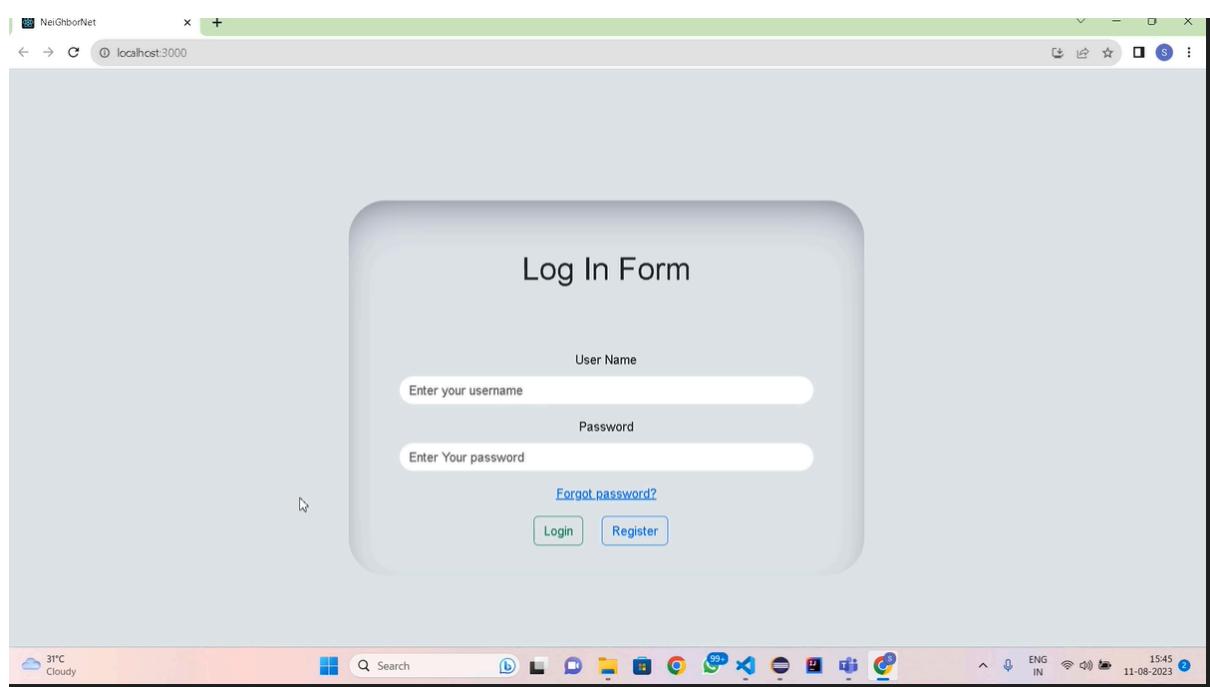
113     }
114
115
116     // @Scheduled(fixedRate = 5000)
117     public void automaticallyCloseVotingEvents() {
118         votingEventService.automaticalyCloseVotingEvents();
119     }
120
121     // @Scheduled(fixedRate = 5000)
122     public void automaticallyCloseEvents() {
123         eventService.automaticalyCloseEvents();
124     }
125
126     // @Scheduled(fixedRate = 30000)
127     public void addCommittee() throws CommitteeException {
128
129         committeeService.addCommittee();
130     }
131
132
133     // @Scheduled(fixedRate = 30000)
134     public void removeCandidate() {
135
136     }
137
138 }
```

Outline X com.example.demo

- DemoApplication
 - emailSenderService : EmailSenderService
 - residentService : ResidentService
 - residentRepository : ResidentRepository
 - accountService : AccountService
 - accountsRepository : AccountsRepository
 - committeeService : CommitteeService
 - votingEventService : VotingEventService
 - eventService : EventService
 - main(String[])
 - sendMail()
 - createAccountScheduled()
 - automaticalyCloseVotingEvents()
 - automaticalyCloseEvents()
 - addCommittee()
 - removeCandidate()

Markers Properties Servers Data Source Explorer Snippets Terminal Console X

31°C Cloudy 15:44 11-08-2023



Log In Form

User Name

Password

[Forgot password?](#)

[Login](#) [Register](#)

 NeiGborNet

Register Resident

| | |
|---|--|
| Name: | Phone Number: |
| <input type="text" value="Enter full name"/> | <input type="text" value="Enter phone number"/> |
| Email: | Password: |
| <input type="text" value="Enter Your email"/> | <input type="text" value="Enter your password"/> |
| Wing No: | Floor No: |
| <input type="text" value="Enter wing no"/> | <input type="text" value="Enter floor no"/> |
| Flat No: | Member Count: |
| <input type="text" value="Enter flat no"/> | <input type="text" value="Enter member count"/> |
| <input type="button" value="Submit"/> <input style="background-color: red; color: white; border-radius: 5px; padding: 2px 10px; border: none; font-weight: bold; font-size: 10px;" type="button" value="Cancel"/> | |

Log In Form

User Name
developerswagatam@gmail.com

Password

[Forgot password?](#)

[Login](#) [Register](#)

← → C ① localhost:3000/home

The screenshot shows a web browser window for 'localhost:3000/home'. The header is blue with the logo 'NeiGhborNet' and navigation links 'Home', 'Events', 'Voting', 'Bulletin', 'Society ▾', and a user dropdown 'Hi Swagatam Bardhan ▾'. Below the header is a large banner image of a modern apartment complex with the text 'Society Building' and 'A voluntary organization where any one can become a part and live as one family'. At the bottom, there are four green rounded rectangular buttons with white text: 'Monthly Due', 'Upcoming', 'Meet Your', and 'New here'.

localhost:3000/voting

NeiGhborNet Home Events Voting Bulletin Society ▾ Hi Swagatam Bardhan ▾

Voting Page

Future Events Apply Clear

| Post Name | Start Time | End Time | Day | Candidates | Description | Status | Action | Result | Edit |
|---------------|------------|------------|-----------|------------|--------------------------------|--------|--|--------|------|
| Gardener Head | 3:00:00 PM | 5:00:00 PM | August 11 | 3 | This post is for gardener head | open | Nominate Vote Show <input checked="" type="checkbox"/> | | |

NeiGhborNet Home Events Voting Bulletin Society ▾ Hi Swagatam Bardhan ▾

Voting Page

All Events Apply Clear

| Post Name | Start Time | End Time | Day | Candidates | Description | Status | Action | Result | Edit |
|---------------|-------------|-------------|-----------|------------|---|--------|--|--------|------|
| Chairman | 2:00:00 AM | 3:00:00 AM | July 2 | 2 | This voting is for chairman's post | closed | Withdraw Vote Show <input checked="" type="checkbox"/> | | |
| Secretary | 6:55:00 AM | 7:05:00 AM | July 2 | 2 | This voting is for secretary post | closed | Nominate Vote Show <input checked="" type="checkbox"/> | | |
| Security Head | 12:12:00 AM | 12:35:00 AM | July 7 | 2 | This is a voting event for security head post | closed | Nominate Vote Show <input checked="" type="checkbox"/> | | |
| Treasurer | 8:10:00 PM | 9:20:00 PM | July 12 | 2 | This post is for treasurer post. | closed | Nominate Vote Show <input checked="" type="checkbox"/> | | |
| blah | 1:18:00 PM | 3:18:00 PM | August 3 | 1 | blahh | closed | Nominate Vote Show <input checked="" type="checkbox"/> | | |
| Gardener Head | 3:00:00 PM | 5:00:00 PM | August 11 | 3 | This post is for gardener head | open | Nominate Vote Show <input checked="" type="checkbox"/> | | |

localhost:3000/votingHandler

NeiGhborNet Home Events Voting Bulletin Society ▾ Hi Swagatam Bardhan ▾

Voting Page

Post Name:
Enter the Title

Number of Candidates:
Enter the number of candidates

Description:
Enter Your Description

Start Time:
dd-mm-yyyy --::--

End Time:
dd-mm-yyyy --::--

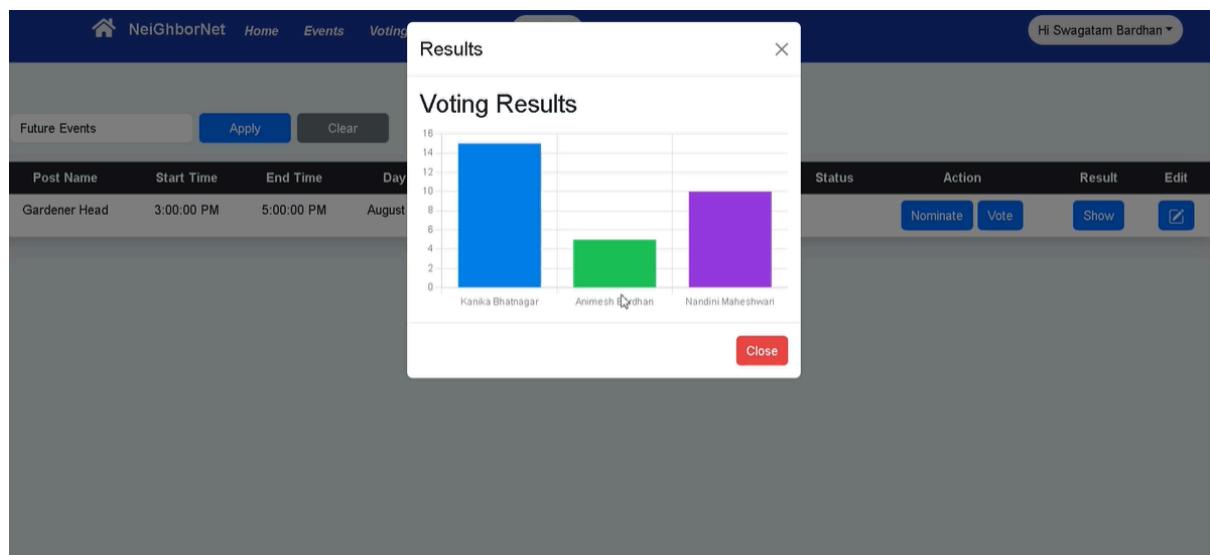
Add Voting Event

NeiGhborNet Home Events Voting Bulletin Society ▾ Hi Swagatam Bardhan ▾

Voting Page

| Post Name | Start Time | End Time | Day | Candidates | Description | Status | Action | Result | Edit |
|---------------|------------|------------|-----------|------------|--------------------------------|--------|----------|--------|------|
| Gardener Head | 3:00:00 PM | 5:00:00 PM | August 11 | 3 | This post is for gardener head | open | Nominate | Vote | Show |

| Committee Members | | | | |
|-------------------|---------------|------------------|---------|---------|
| | Post Name | Name | Wing No | Flat No |
| | Chairman | Swagatam Bardhan | 5 | 105 |
| | Secretary | Gautam Bardhan | 10 | 152 |
| | Security Head | Anisha Kewat | 5 | 114 |
| | Treasurer | Tushar Bhatnagar | 7 | 104 |



| Events Page | | | | | | | | | |
|------------------|------------|----------|-----------|----------|-------------|--------|-----------|----------------------------|----------------------|
| Event Name | Start Time | End Time | Day | Location | Description | Status | Organizer | Organizers | Edit |
| Independence day | 6 AM | 6 PM | August 15 | ground | Carry Flag | open | Yes | Interested | View |

| Organizer Name | Email | Phone | Action |
|------------------|-----------------------------|------------|------------------------|
| Swagatam Bardhan | developerswagatam@gmail.com | 9612869393 | Remove |

| Event Name | Start Time | End Time | Day | Location | Description | Status | Organizer | Organizers | Edit |
|------------------|------------|----------|-----------|----------|-------------|--------|-----------|----------------------------|----------------------|
| Independence day | 6 AM | 6 PM | August 15 | ground | Carry Flag | open | Yes | Interested | View |

Events Page

Create Event

Want Organizer ?

Event Name:

Place:

Budget:

Start Date and Time:

End Date and Time:

NeighborhoodNet

localhost:3000/events

Create Event

Want Organizer?

Event Name:

Place:

Select Place

Start Date and Time:

End Date and Time:

Description:

localhost:3000/bulletin

NeiGhborNet Home Events Voting Bulletin Society Hi Swagatam Bardhan ▾

Bulletin Board

Community Clean-up Day

We are excited to announce our upcoming Community Clean-up Day! Let's come together as a united society and make our neighborhood cleaner, greener, and more beautiful. This is an excellent opportunity to give back to our community and create a positive impact on the environment.

↳

Delete Edit

Society Annual Picnic

Get ready for a day of joy, laughter, and camaraderie at our Society's Annual Picnic! It's time to celebrate our strong bonds and create beautiful memories together. Join us for a day of exciting games, delicious food, and delightful conversations.

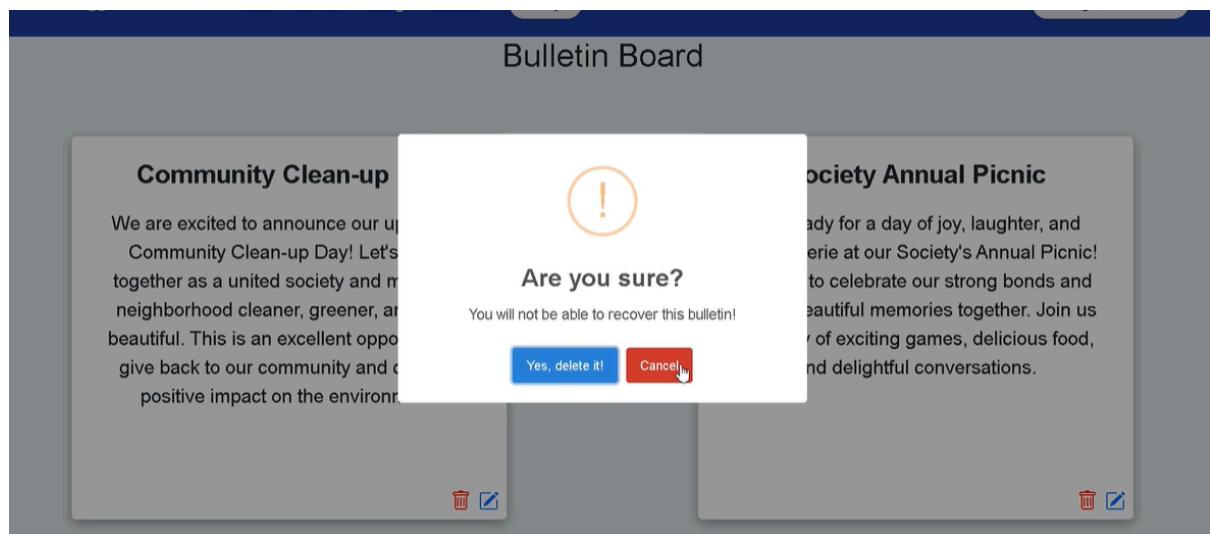
↳

Delete Edit

32°C Haze

Search B D F G C P E S M A N L T W U I O R H V X Y Z

ENG IN 15:57 11-08-2023

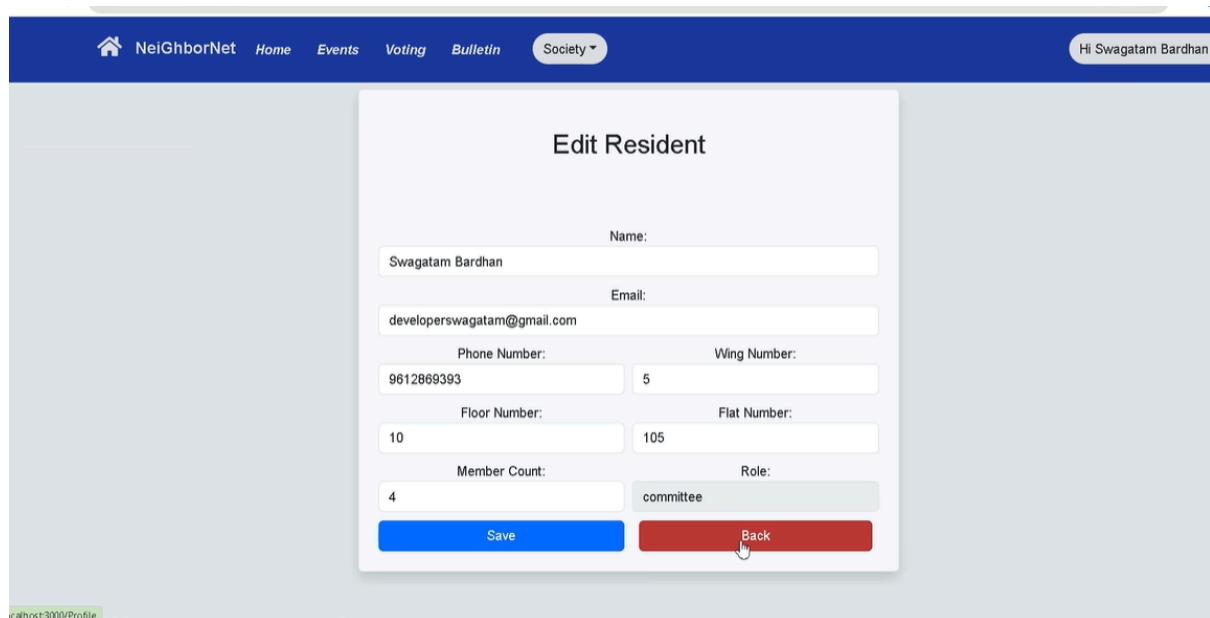
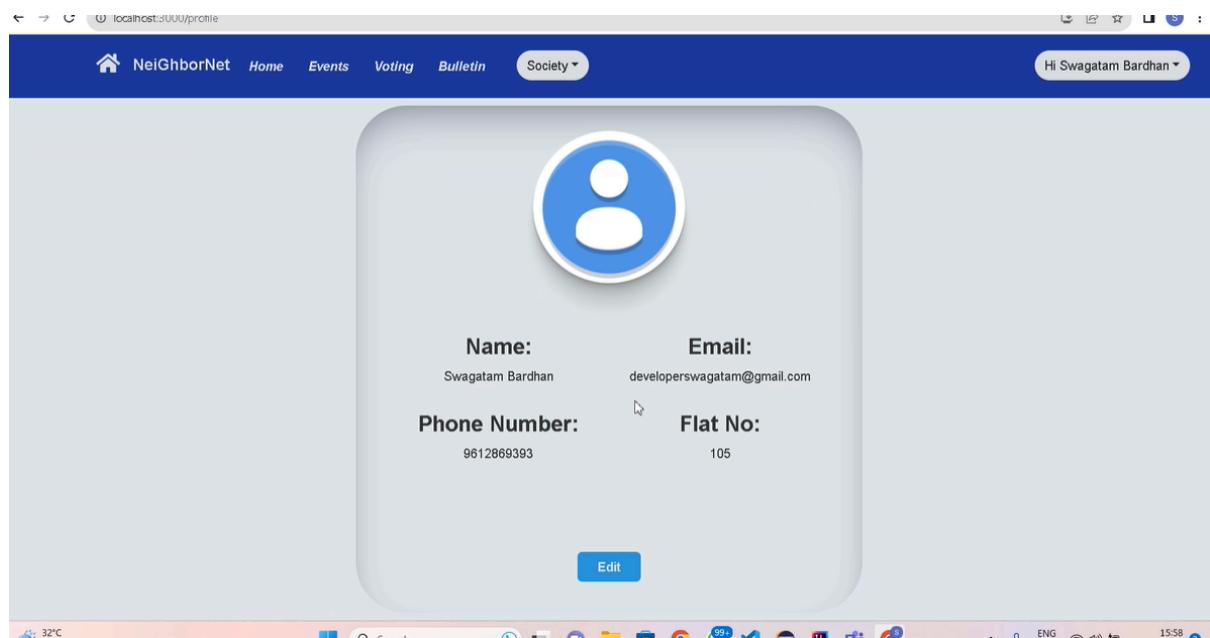


Events Page

| Event Name | Start Time | End Time | Day | Location | Description | Status | Organizer | Organizers | Edit |
|------------------|------------|----------|-----------|----------|-------------|--------|-----------|---|----------------------|
| Independence day | 6 AM | 6 PM | August 15 | ground | Carry Flag | open | No | Interested View | Edit |

Events Page

| Event Name | Start Time | End Time | Day | Location | Description | Status | Organizer | Organizers | Edit |
|------------------|------------|----------|-----------|----------|--------------------------|--------|-----------|---|----------------------|
| Birthday | 10 AM | 11 AM | July 26 | hall | birthday | closed | No | Interested View | Edit |
| Holi | 10 AM | 6 PM | July 27 | ground | Holiiii | closed | No | Interested View | Edit |
| Durga Puja | 10 AM | 10 PM | July 28 | ground | Durga Puja | closed | Yes | Interested View | Edit |
| New Year | 6 PM | 3 AM | July 29 | ground | Lets celebrate | closed | Yes | Interested View | Edit |
| Bachelor Party | 5 PM | 8 PM | July 30 | hall | partyy | closed | Yes | Interested View | Edit |
| Rank Celebration | 3 PM | 6 PM | August 1 | hall | Just a small celebration | closed | No | Interested View | Edit |
| de | 3 PM | 4 PM | August 2 | hall | de | closed | No | Interested View | Edit |
| Demo | 12 PM | 5 PM | August 3 | hall | demo | closed | Yes | Interested View | Edit |
| Independence day | 6 AM | 6 PM | August 15 | ground | Carry Flag | open | No | Interested View | Edit |



NeiGhborNet Home Events Voting Bulletin Society ▾ Hi Swagatam Bardhan ▾

Add Complaint

Title:

Select the Complaint

- Plumber
- Electricity
- Roofers
- Hvac Technical issues
- Landscape
- Pest Control
- Waste Management
- Plastering**
- Locksmiths
- Parking
- Others

NeiGhborNet Home Events Voting Bulletin Society ▾ Hi Swagatam Bardhan ▾

Add Suggestion

Title :

Enter the Title

Description :

Enter the Event Description

Submit **Cancel**

localhost:3000/account

NeiGhborNet Home Events Voting Bulletin Society Hi Swagatam Bardhan

Maintenance Bills

View: Pending Month: Enter month in digit Breakdown

| Date | Status | Amount | Action |
|-----------|---------|--------|--------|
| July 2023 | pending | 5000 | PAY |
| July 2023 | pending | 5000 | PAY |
| July 2023 | pending | 5000 | PAY |

localhost:3000/account

NeiGhborNet Home Events Voting Bulletin Society Hi Swagatam Bardhan

Maintenance Bills

View: All Month: Enter month in digit Breakdown

| Date | Status | Amount | Action |
|-----------|--------|--------|--------|
| June 2023 | paid | 1000 | PAY |
| July 2023 | paid | 20000 | PAY |
| July 2023 | paid | 5000 | PAY |
| July 2023 | paid | 5000 | PAY |
| July 2023 | paid | 5000 | PAY |
| July 2023 | paid | 5000 | PAY |
| July 2023 | paid | 5000 | PAY |
| July 2023 | paid | 5000 | PAY |
| July 2023 | paid | 5000 | PAY |
| July 2023 | paid | 5000 | PAY |
| July 2023 | paid | 5000 | PAY |
| July 2023 | paid | 5000 | PAY |
| July 2023 | paid | 5000 | PAY |
| July 2023 | paid | 5000 | PAY |

Upcoming earnings Search 15:59 11-08-2023

ENG IN

localhost:3000/account

NeiGhborNet Home Events Voting Bulletin Society Hi Swagatam Bardhan

Maintenance Bills

View: Pending Month: Enter month in digit Breakdown

| Date | Status | Amount | Action |
|-----------|---------|--------|--------|
| July 2023 | pending | 5000 | PAY |
| July 2023 | pending | 5000 | PAY |
| July 2023 | pending | 5000 | PAY |

localhost:3000/account

NeiGhborNet Home Events Voting Bulletin Society ▾ Hi Swagatam Bardhan ▾

/view: Pending Month: Enter month in digit

Complaint Suggestion Account Voting Bulletin

| Date | Status | Amount | Action |
|-----------|---------|--------|--------|
| July 2023 | pending | 5000 | PAY |
| July 2023 | pending | 5000 | PAY |
| July 2023 | pending | 5000 | PAY |

Breakdown

localhost:3000/accountHandler

Search by name or email Filter Cancel Breakdown

| ID | Name | Email | Amount | Status | Action |
|----|------------------|-----------------------------|--------|---------|--------|
| 4 | Swagatam Bardhan | developerswagatam@gmail.com | 1000 | paid | PAY |
| 5 | Swagatam Bardhan | developerswagatam@gmail.com | 20000 | paid | PAY |
| 6 | Kanika Bardhan | swagatam53218@gmail.com | 5000 | pending | PAY |
| 7 | Kanika Bardhan | swagatam53218@gmail.com | 15000 | paid | PAY |
| 8 | Swagatam Bardhan | developerswagatam@gmail.com | 5000 | paid | PAY |
| 9 | Kanika Bardhan | swagatam53218@gmail.com | 5000 | pending | PAY |
| 10 | Gautam Bardhan | swagatambardhan6@gmail.com | 5000 | paid | PAY |
| 11 | Anisha Kewat | anishakewat0605@gmail.com | 5000 | paid | PAY |
| 12 | Uttam Bardhan | uttam@gmail.com | 5000 | paid | PAY |
| 13 | Kanika Bhatnagar | bhatnagar@gmail.com | 5000 | paid | PAY |
| 14 | Swagatam Bardhan | developerswagatam@gmail.com | 5000 | paid | PAY |
| 15 | Kanika Bardhan | swagatam53218@gmail.com | 5000 | pending | PAY |

32°C Haze Search ENG IN 11-08-2023

NEIGHBOR NET

Monthly Due
10000₹
PLEASE [PAY](#)

Upcoming
Events
[View](#)

Meet Your
Neighbour's
[Meet](#)

New here
View committee members
[View](#)

NEIGHBOR NET

Monthly Due
10000₹
PLEASE [PAY](#)

Upcoming
Events
[View](#)

Meet Your
Neighbour's
[Meet](#)

New here
View committee members
[View](#)

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GBP/INR +0.47%
Search
Home
Events
Voting
Bulletin
Society ▾
Hi Swagatam Bardhan ▾

| Name | Wing No | Flat No | Email | Phone Number | Floor No | Member Count | Action |
|--------------------|---------|---------|-----------------------------|--------------|----------|--------------|-------------------------------------|
| Swagatam Bardhan | 5 | 105 | developerswagatam@gmail.com | 9612869393 | 10 | 4 | <input checked="" type="checkbox"/> |
| Kanika Bardhan | 3 | 201 | swagatam53218@gmail.com | 8787520365 | 20 | 4 | <input checked="" type="checkbox"/> |
| Gautam Bardhan | 10 | 152 | swagatambardhan6@gmail.com | 8787702895 | 10 | 6 | <input checked="" type="checkbox"/> |
| Anisha Kewat | 5 | 114 | anishakewat0605@gmail.com | 8787999123 | 11 | 6 | <input checked="" type="checkbox"/> |
| Uttam Bardhan | 2 | 104 | uttam@gmail.com | 9687456235 | 10 | 6 | <input checked="" type="checkbox"/> |
| Kanika Bhatnagar | 2 | 104 | bhatnagar@gmail.com | 9612869696 | 10 | 6 | <input checked="" type="checkbox"/> |
| Vikrant Mishra | 5 | 112 | vikrant@gmail.com | 9612869696 | 11 | 2 | <input checked="" type="checkbox"/> |
| Tushar Bhatnagar | 7 | 104 | tushar@gmail.com | 8787256982 | 10 | 4 | <input checked="" type="checkbox"/> |
| Animesh Bardhan | 3 | 152 | animesh@gmail.com | 8787999123 | 15 | 6 | <input checked="" type="checkbox"/> |
| Tamanna Bardhan | B1 | 124 | tamanna@gmail.com | 9587523653 | 12 | 4 | <input checked="" type="checkbox"/> |
| Nandini Maheshwari | A2 | 024 | nandini@gmail.com | 7623589567 | 2 | 6 | <input checked="" type="checkbox"/> |

localhost:3000/committee

NeiGhborNet Home Events Voting Bulletin Society ▾ Hi Swagatam Bardhan ▾

Committe Members

| | Post Name | Name | Wing No | Flat No |
|--|---------------|--------------------|---------|---------|
| | Chairman | Swagatam Bardhan | 5 | 105 |
| | Secretary | Gautam Bardhan | 10 | 152 |
| | Security Head | Anisha Kewat | 5 | 114 |
| | Treasurer | Tijushar Bhatnagar | 7 | 104 |

localhost:3000/complaintHandler

NeiGhborNet Home Events Voting Bulletin Society ▾ Hi Swagatam Bardhan ▾

Complaint Handler

Filter: All Complaints Contact

| CId | RId | Title | Description | Date | Status | Action |
|-----|-----|---------|--|----------|---------|-----------------------------------|
| 1 | 202 | Plumber | On flat 104 bathroom tap is not working. | 8/9/2023 | pending | <button>Mark as Resolved</button> |

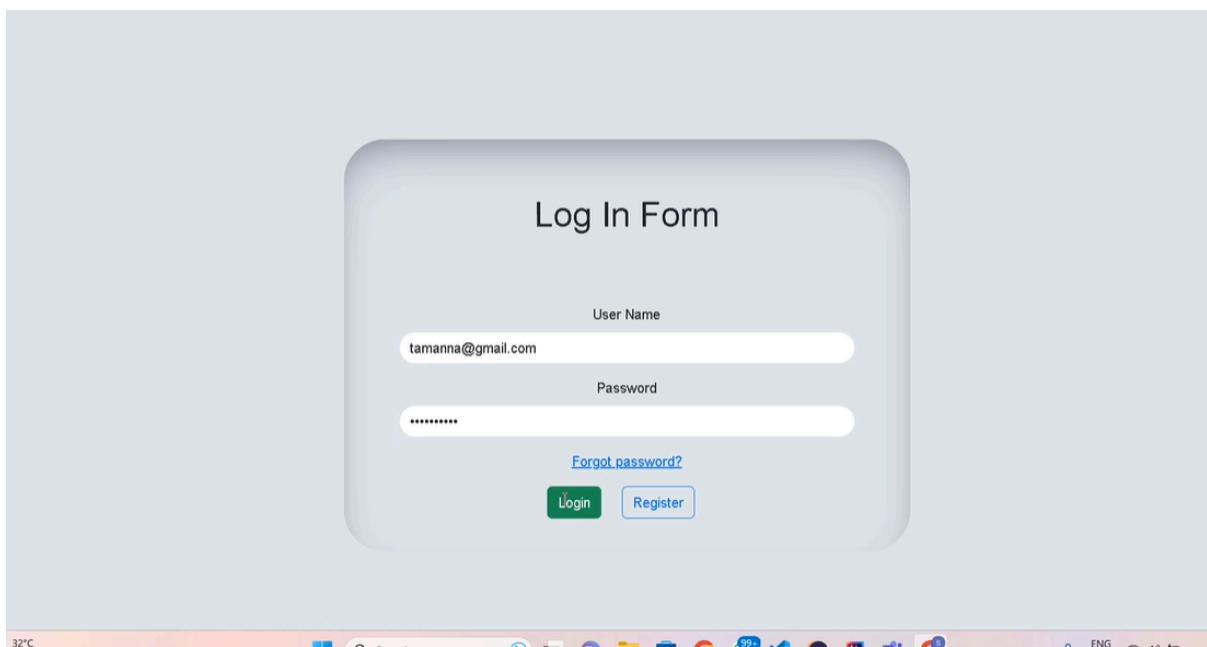
localhost:3000/complaintHandler

NeiGhborNet Home Events Voting Bulletin Society ▾ Hi Swagatam Bardhan ▾

Complaint Handler

Filter: All Complaints Contact

| CId | RId | Title | Description | Date | Status | Action |
|-----|-----|---------|--|----------|----------|-----------------------------------|
| 1 | 202 | Plumber | On flat 104 bathroom tap is not working. | 8/9/2023 | resolved | <button>Mark as Resolved</button> |



A screenshot of the 'Voting Page' from the NeiGhborNet application. The page title is 'Voting Page'. It shows a table of voting events. One event is listed: 'Gardener Head' with start time 3:00:00 PM, end time 5:00:00 PM, day August 11, and 4 candidates. The description is 'This post is for gardener head' and the status is 'open'. Action buttons include 'Nominate', 'Vote', and 'Show'.

| | Name | Wing No | Flat No |
|--|--------------------|---------|---------|
| | Swagatam Bardhan | 5 | 105 |
| | Kanika Bardhan | 3 | 201 |
| | Gautam Bardhan | 10 | 152 |
| | Anisha Kewat | 5 | 114 |
| | Uttam Bardhan | 2 | 104 |
| | Kanika Bhatnagar | 2 | 104 |
| | Vikrant Mishra | 5 | 112 |
| | Tushar Bhatnagar | 7 | 104 |
| | Animesh Bardhan | 3 | 152 |
| | Tamanna Bardhan | B1 | 124 |
| | Nandini Maheshwari | A2 | 024 |

| Events Page | | | | | | | | | |
|------------------|------------|----------|-----------|----------|-------------|--------|-----------|----------------------------|----------------------|
| Event Name | Start Time | End Time | Day | Location | Description | Status | Organizer | Organizers | Edit |
| Independence day | 6 AM | 6 PM | August 15 | ground | Carry Flag | open | No | Interested | View |

```

59
60     //cron expression for every month's 1st day at 1:00 AM ("0 0 1 1 * ?")
61     // @Scheduled(fixedRate = 180000)
62     // @EventListener(ApplicationReadyEvent.class)
63     public void sendMail() {
64         try {
65
66             //Get all the residents
67             List<Resident> residents = residentRepository.findAll();
68
69             //visit individual resident
70             for (Resident resident : residents) {
71
72                 //Get all the accounts of each resident
73                 List<Account> allAccounts = accountRepository.findByResident(resident);
74
75                 //visit each account
76                 for (Account account : allAccounts) {
77
78                     //condition
79                     if (account.getStatus().equals("pending")) {
80
81                         //sending email
82                         emailSenderService.sendEmail(resident.getEmail(), "Maintenance Due",
83                                         "Dear " + resident.getName() + ", your " + account.getDate().minusMonths(1).getMonth()
84                                         + " month's maintenance " + account.getAmount()
85                                         + " rupees is due. Please pay before the deadline.");
86
87                     }
88                 }
89             }
90         } catch (Exception e) {
91             // Handle any exceptions that occur during sending emails
92             e.printStackTrace();
93         }
94     }
95 }
```

```
File Edit Source Refactor Source Navigate Search Project Run Window Help
DemoApplication.java X
92         // Handle any exceptions that occur during sending emails
93         e.printStackTrace();
94     }
95 }
96
97
98 // (cron = "0 0 0 1 * ?") for every months 1st day at 12:00 AM
99 // @Scheduled(fixedRate = 60000)
100 public void createAccountScheduled() {
101     try {
102         // Retrieve all residents
103         List<Resident> residents = residentRepository.findAll();
104
105         // Create account for each resident
106         for (Resident resident : residents) {
107             accountService.createAccount(resident);
108         }
109     } catch (Exception e) {
110         e.printStackTrace();
111         throw new IllegalArgumentException("Error at account creation "+e.getMessage());
112     }
113 }
114
115 // @Scheduled(fixedRate = 5000)
116 public void automaticallyCloseVotingEvents() {
117     votingEventService.automaticallyCloseVotingEvents();
118 }
119
120
121 // @Scheduled(fixedRate = 5000)
122 public void automaticallyCloseEvents() {
123     eventService.automaticallyCloseEvents();
124 }
125
126 // @Scheduled(fixedRate = 30000)
127 public void addCommittee() throws CommitteeException {
128 }
```