

ClubHub Central

Club and Event management system

Project Team - CS09



Terance

2021/CS/057



Raguram

2021/CS/150



Usama

2021/CS/203



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2021/CS/086

Supervisor

Co-Supervisor

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Problem

At UCSC, students face challenges in discovering and staying updated about various clubs, their events, and voting in club elections.



Club discovery challenge

Students face club discovery challenges due to a lack of a centralized platform and due to lack of communication.

Fragmented event details

Scattered club event information causes missed opportunities for students to engage in workshops and exciting activities.

Outdated voting processes

Traditional paper-based voting methods lack efficiency and participation in elections.

Introduction

Introducing the "ClubHub Central" app, a one-stop solution for all things related to UCSC clubs and events. This application aims to bring together all clubs and their activities into a single, user-friendly platform, providing a stronger sense of community.

Project Goal

Introducing a user-friendly web application for UCSC Clubs, Club Members, and Students, simplifying event organization, increasing awareness, enhancing event planning, digitalizing elections, and also helping to stay updated about upcoming events.

Project Objectives



A user-friendly platform

**Organize event venues all
in one place with a
centralized calendar.**

**Digitalize the election
process**

**Able to manage
attendance**

Share memories of events

**Manage event resources
via the application**

**Organize monthly
meetings**

User Identification



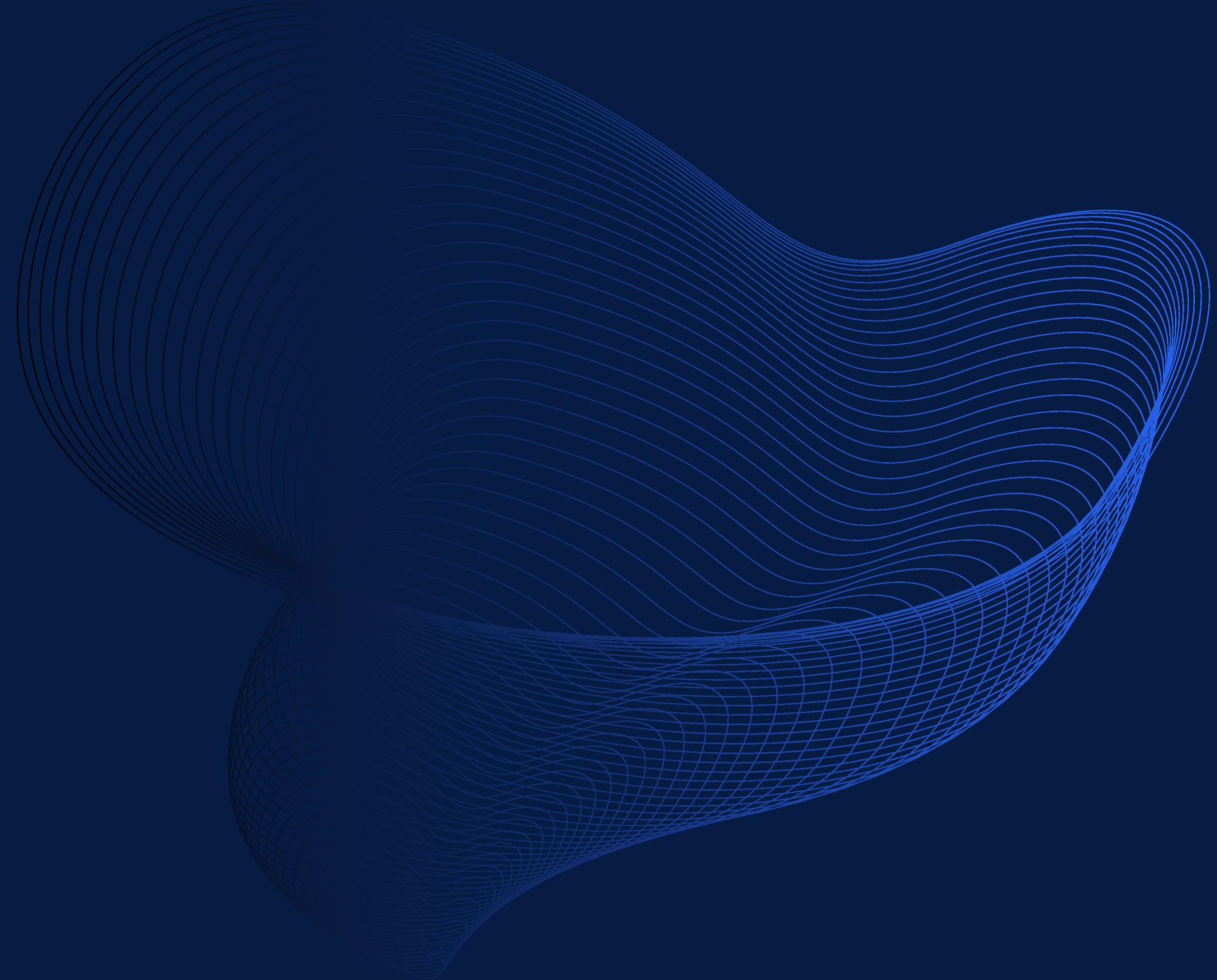
- **Students:** A regular user registered to access the event details
- **System admin:** The super-administrative user
- **Club in charge:** The lecturer in charge of the club
- **Club administrators:** Who manage approvals and monitor the events
- **Club member:** Manages all the sub-systems of the club
- **Event team:** Manages event content

Functional Requirements



Student

- Register in the system
- View and manage their profile
- Manage a profile gallery
- Search and filter events
- Register on events
- Add complaints on events



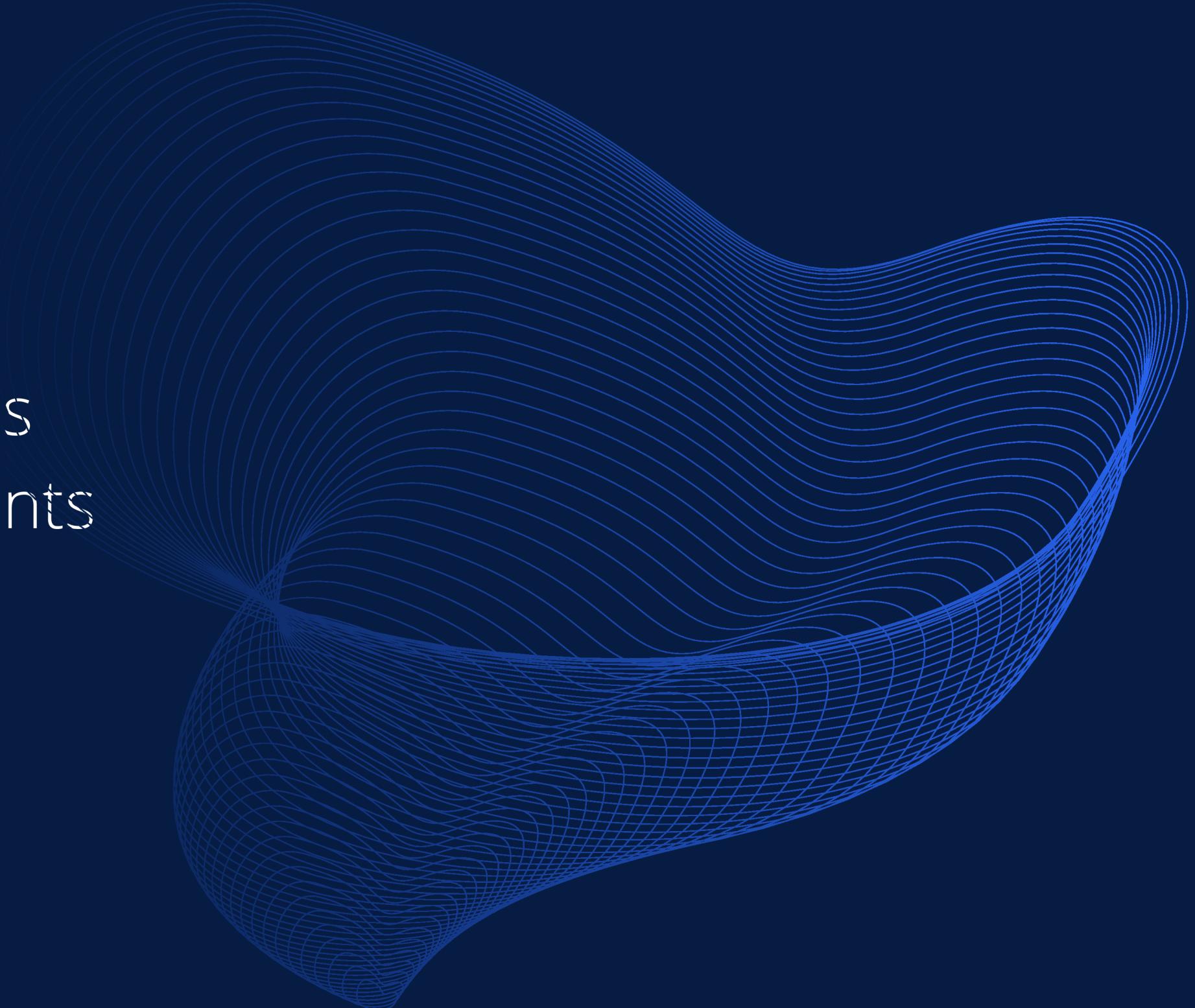
System Admin

- Manage users
- Create clubs and assign the club in charge
- Manage clubs
- Generate user and club detail reports
- Approve or Reject club requests
- Send email notifications to users



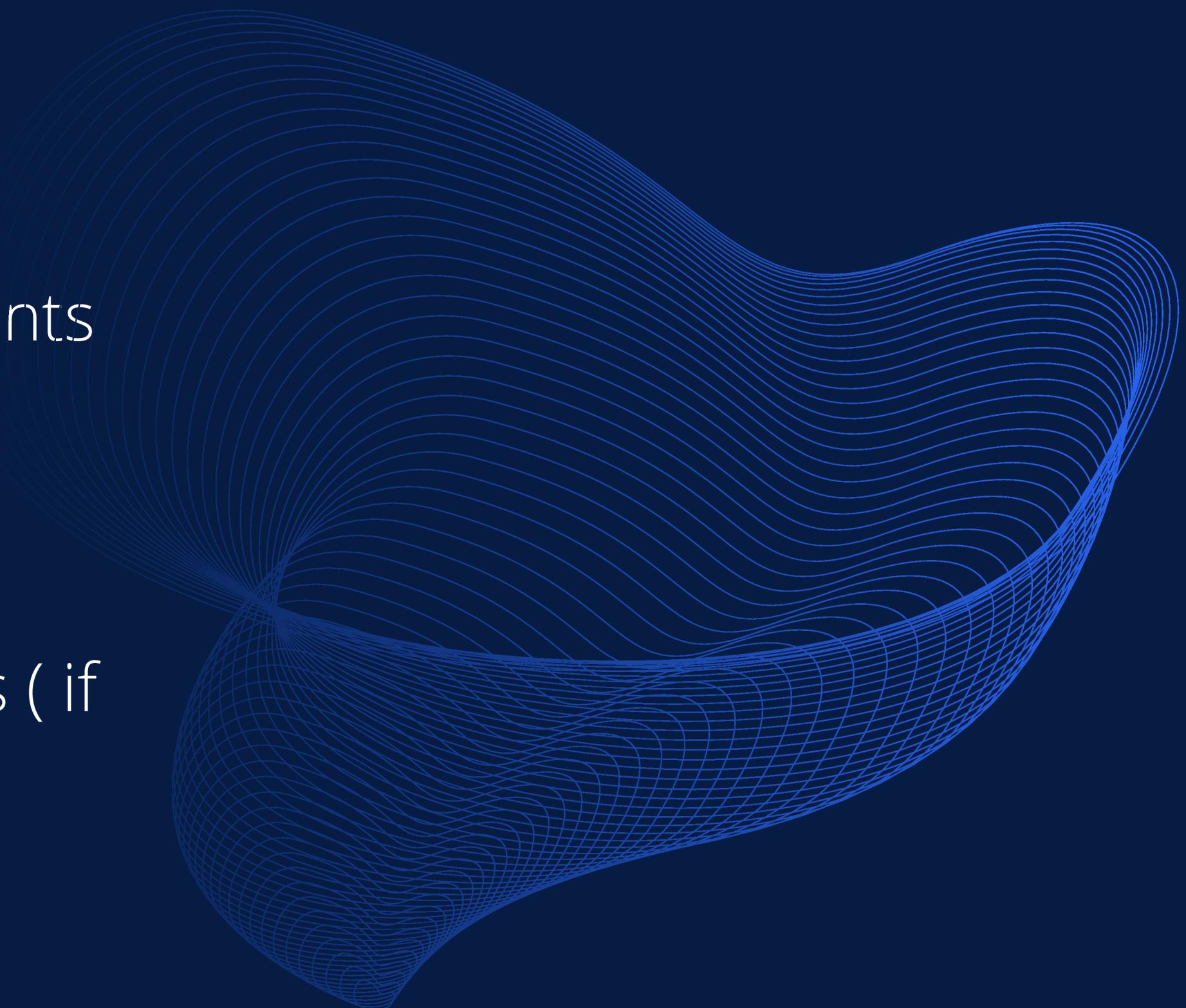
Club In Charge

- Search and filter events
- Handle event approvals
- Handle election publish approvals
- Generate club members and events detail reports
- View and manage meetings



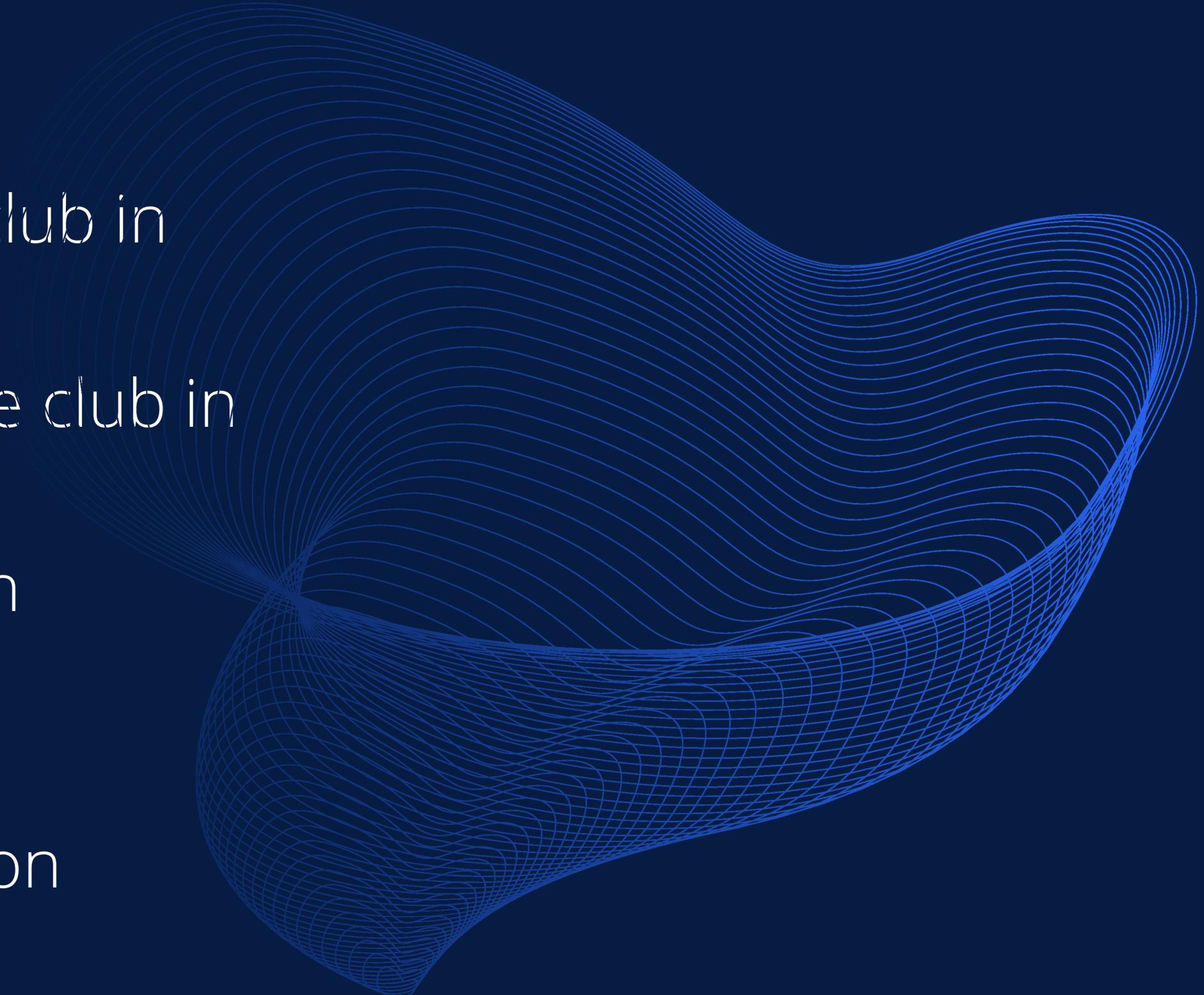
Club Administrators

- Register in the system
- Generate club members and events detail reports
- Broadcast email notifications
- Manage club profile details
- Vote on elections and see results (if allowed)



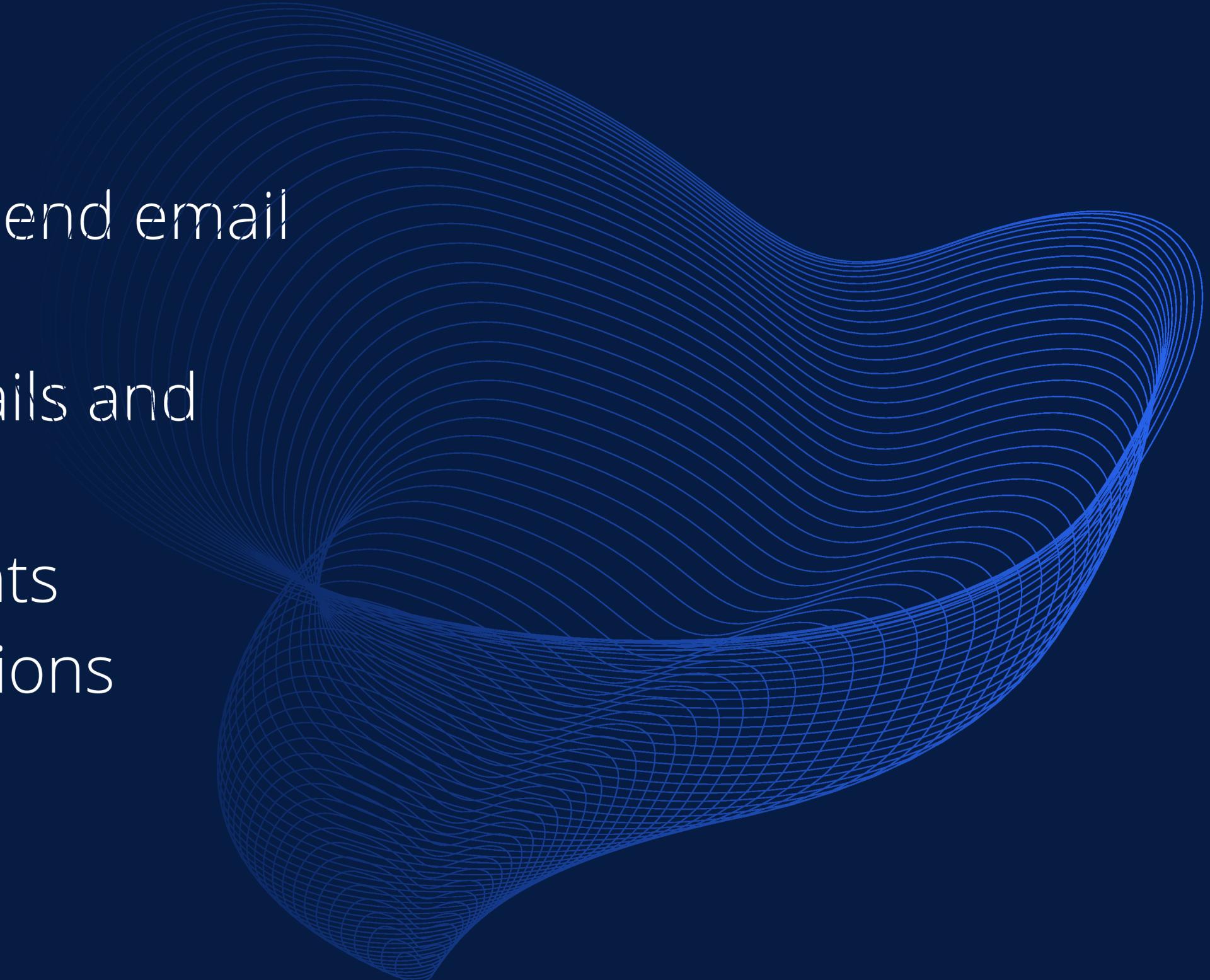
President

- Create events and request the club in charge for approval
- Create elections and request the club in charge for approval
- Create custom teams and assign permissions
- View and manage meetings
- Manage club member registration



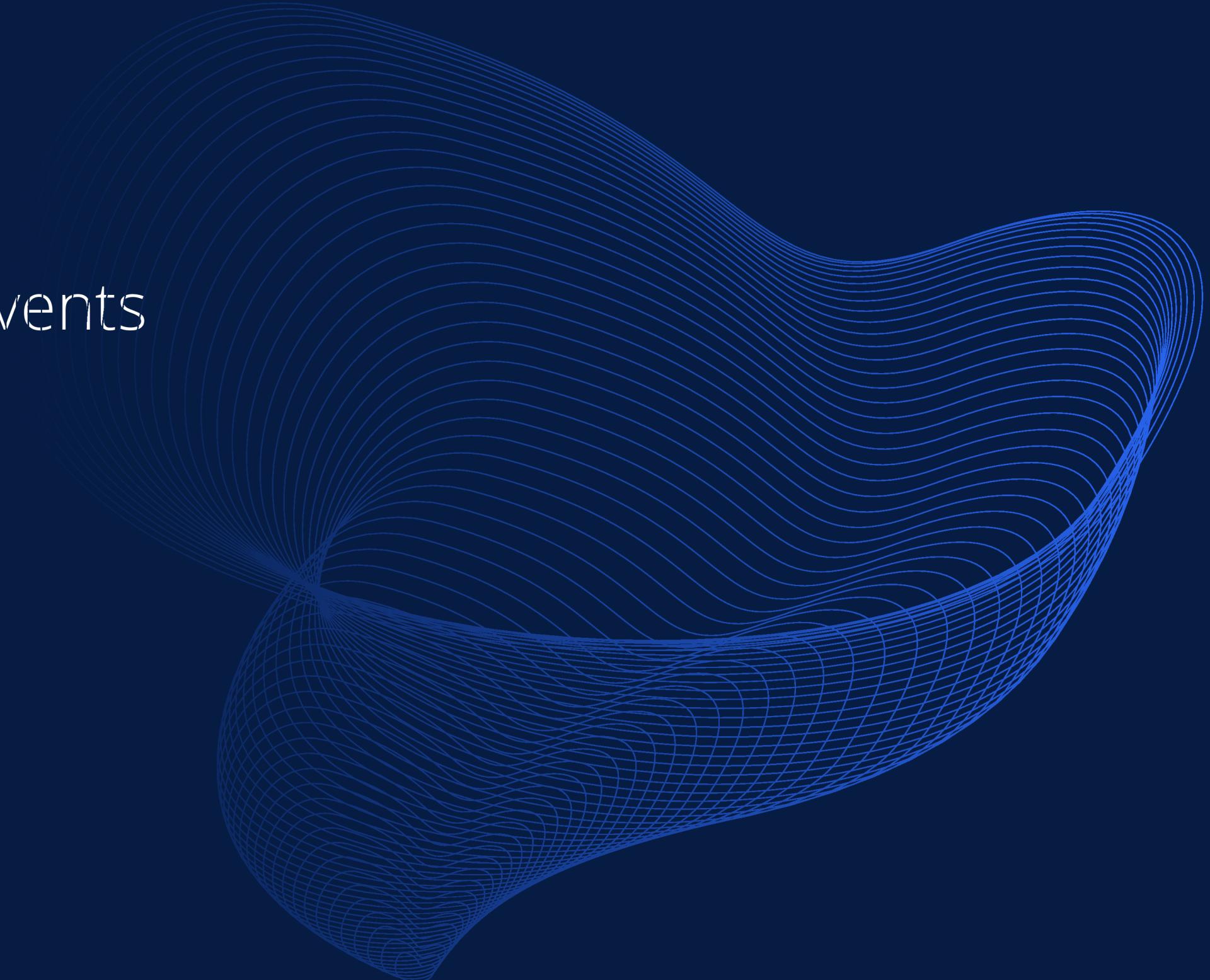
Secretary

- Create monthly meetings and send email notifications
- View and manage meeting details and attendance
- Manage complaints about events
- Manage club member registrations



Treasurer

- Manage event budgets
- Monitor the financial costs of events
- Generate reports on budgets



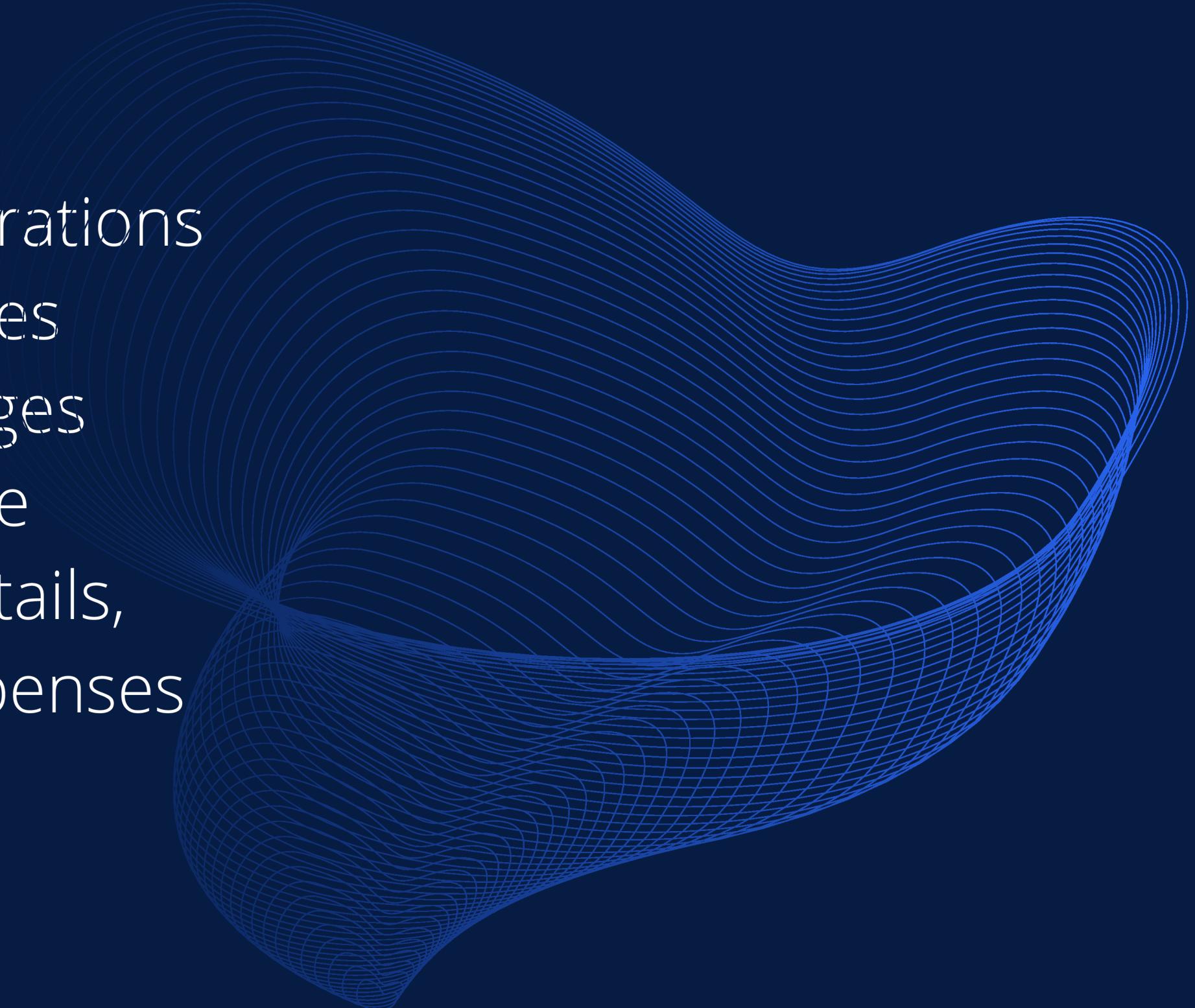
Club Member

- Share posts on the club profile
- Share issues and ideas in a common form
- Manage club gallery
- Attend monthly meetings
- Vote on elections and see results (if allowed)



Event Team

- Publish and manage event registrations
- Add and manage budget expenses
- Add and manage sponsor packages
- Manage details on the event page
- Generate reports on sponsor details, registered users, and budget expenses
- View event complains



Quality Attributes





Performance

- Query optimization



Reliability

- Version control
- Version deployment



Modifiability

- Structured codebase
- Version control



Availability

- Continuous Monitor



Security

- Session authentication
- Data encryption



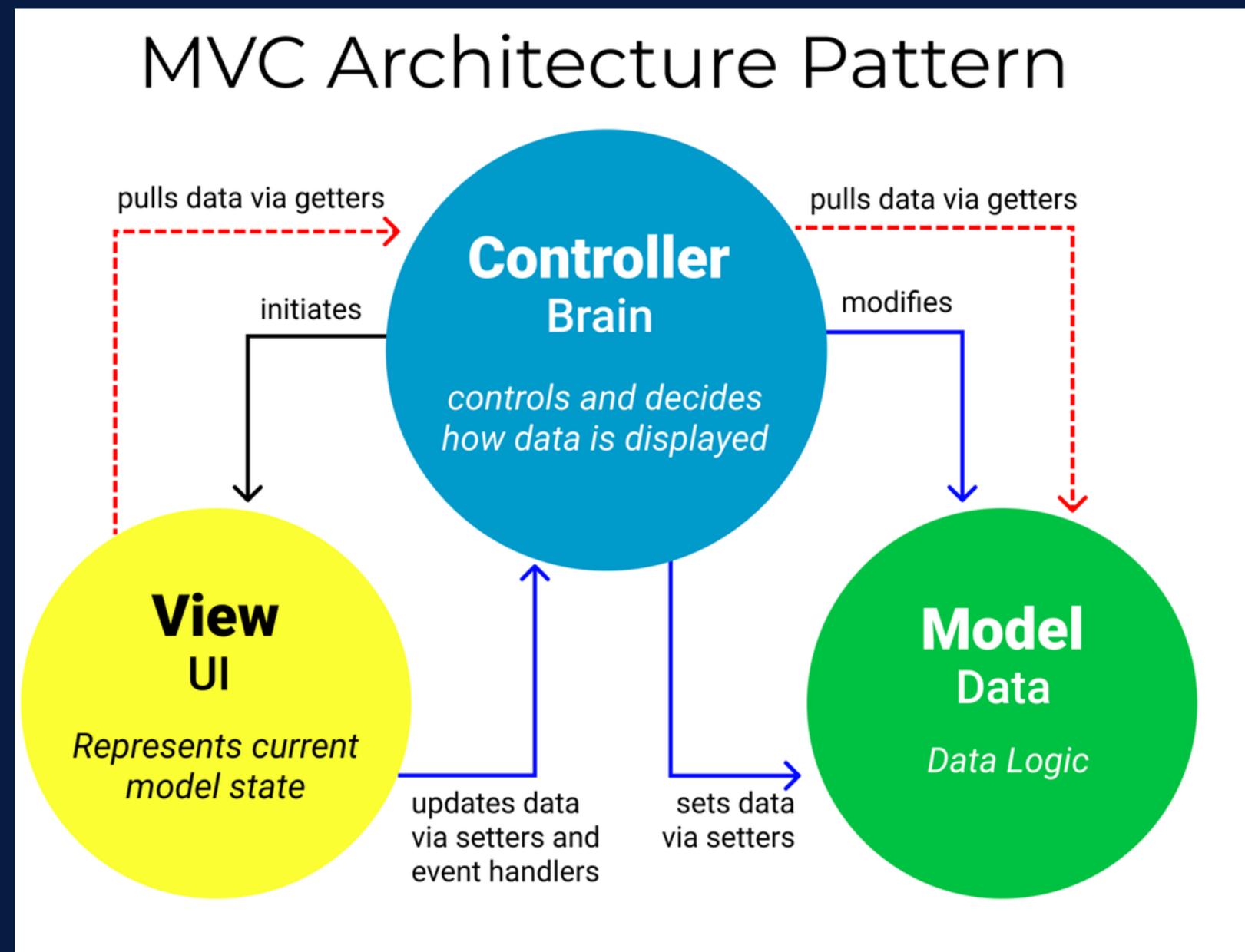
Usability

- Responsive design
- Error handling

System architecture



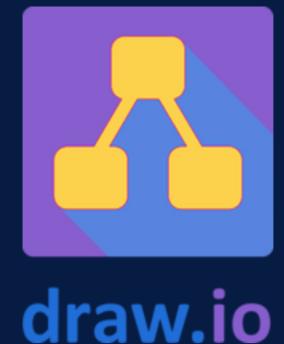
MODEL-VIEW-CONTROLLER ARCHITECTURAL PATTERN



- Separation of Concerns
- Scalability
- Maintenance
- Collaborative Development
- Community Support

Technical Exposure





UI and Diagram design



Frontend Development



Axios

Libraries



Backend Development



Version Control



Visual Studio Code

Text Editor

Best Practices



- ✓ Naming Conventions
- ✓ Comment in Code
- ✓ User-Centered Design
- ✓ Continuous Learning
- ✓ Feedback and Collaboration

Action Plan

Request: Verify club members on their registration to a club

Action: Store valid documents on verification as proof

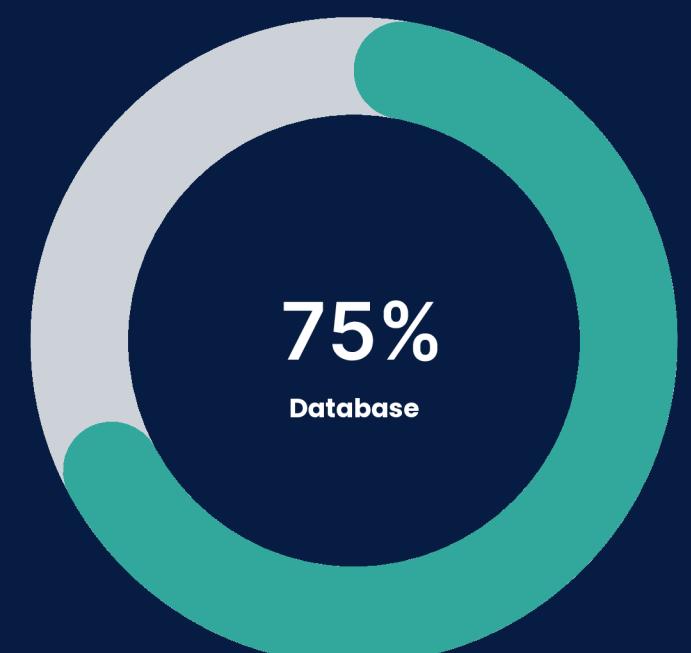
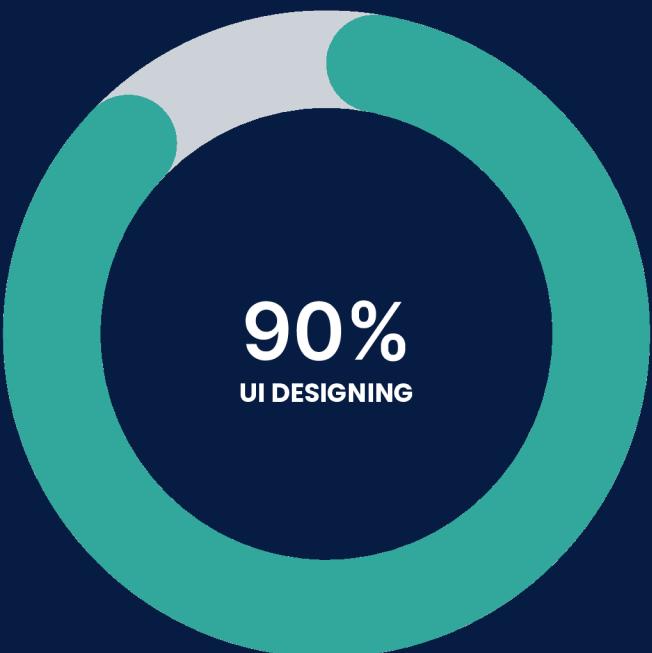
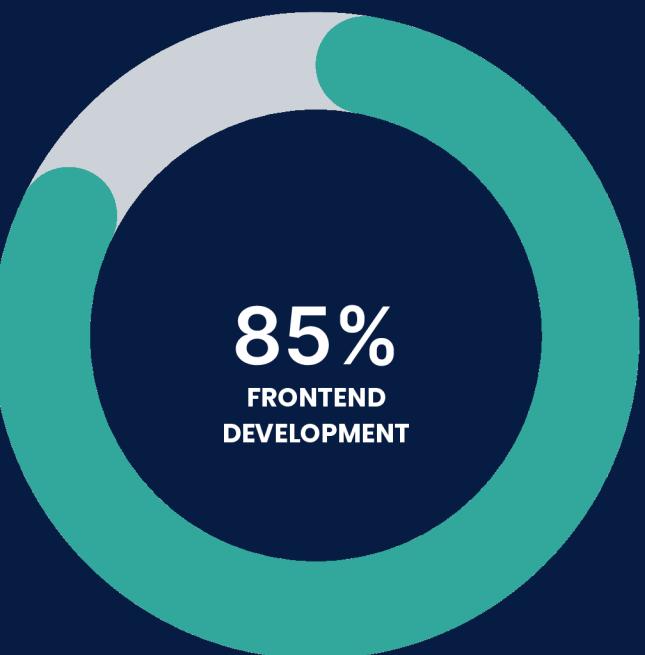
Request: Have conditions on election voting

Action: Select voting candidates on condition of allow only member with given percentage of meeting attendance or number of events they have attended

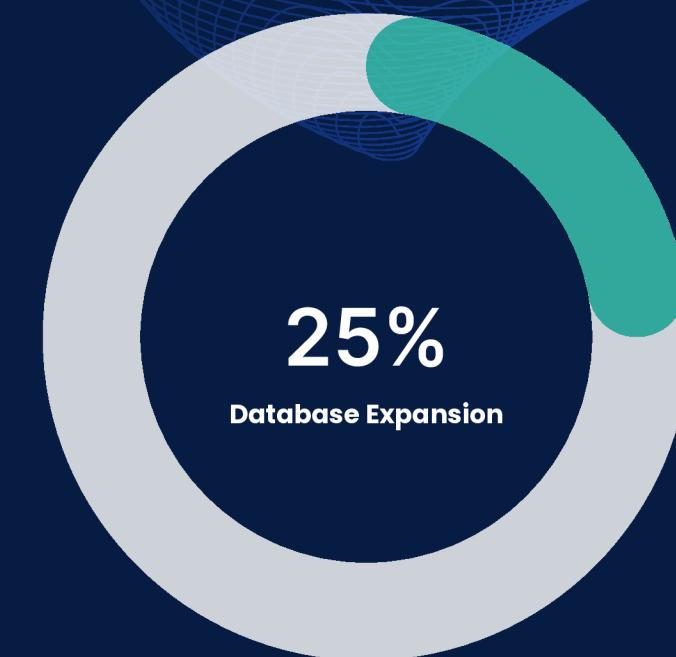
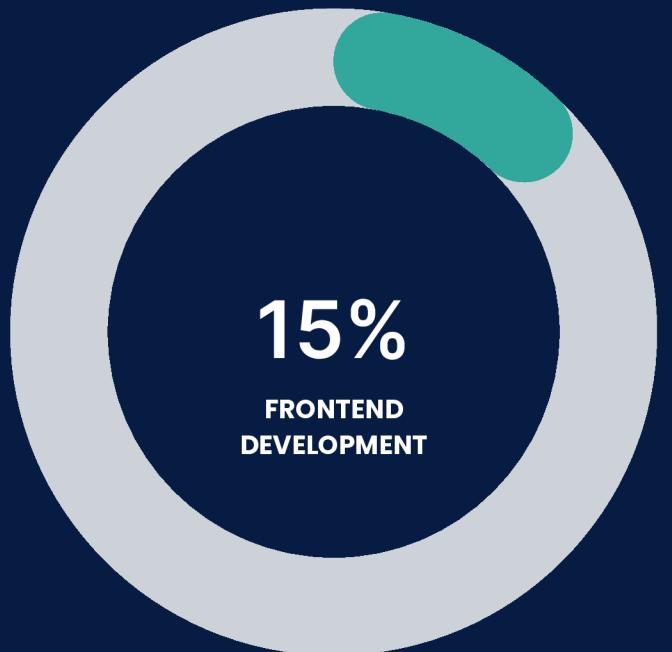
Request: Have membership payment processing

Action: All most all the societies doesn't have a membership fee and clubs like IEEE has a subscription for their accounts, therefore we couldn't handle the membership payment

Our Progress



Remaining Workload

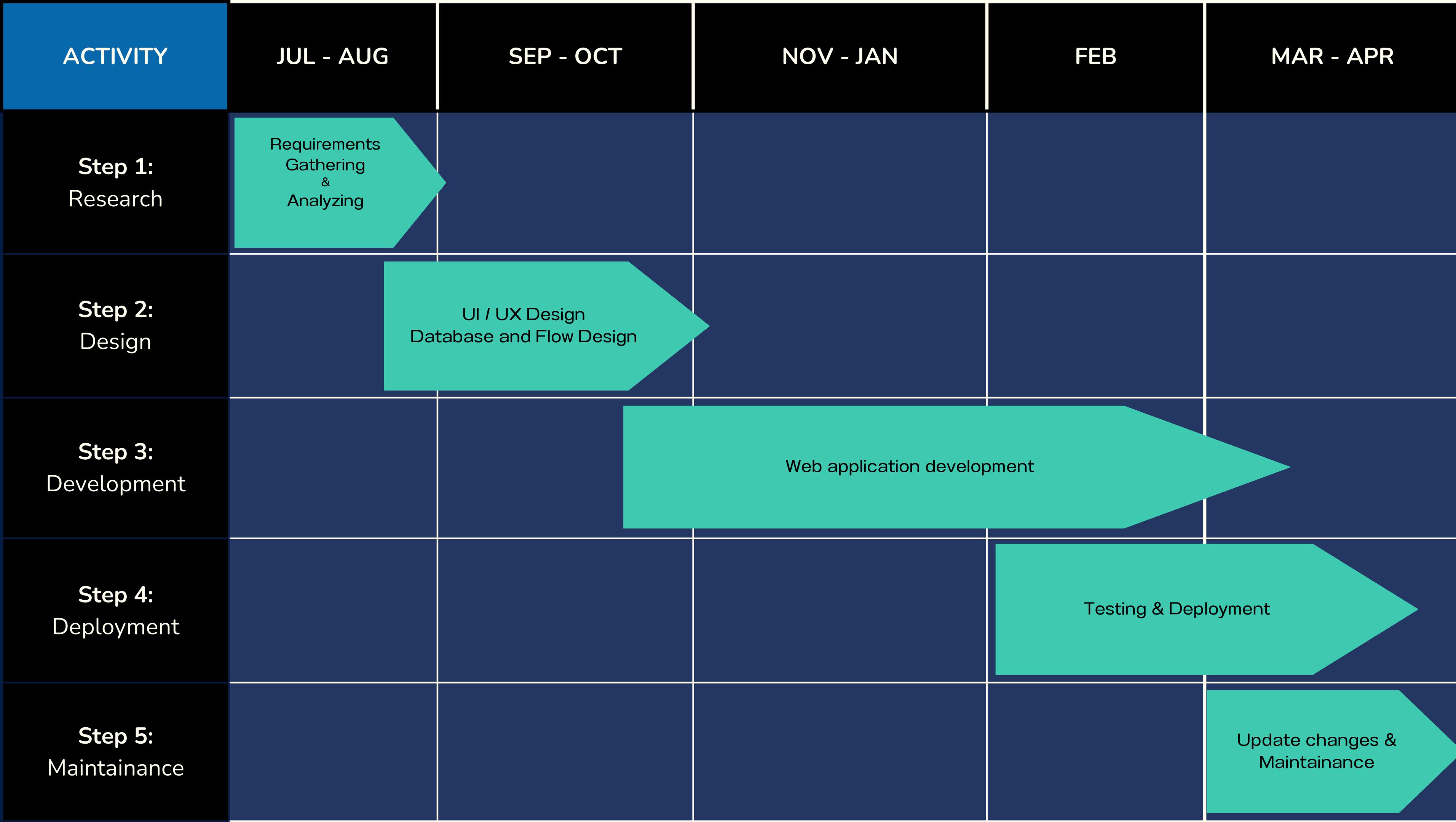


Member contribution so far ...

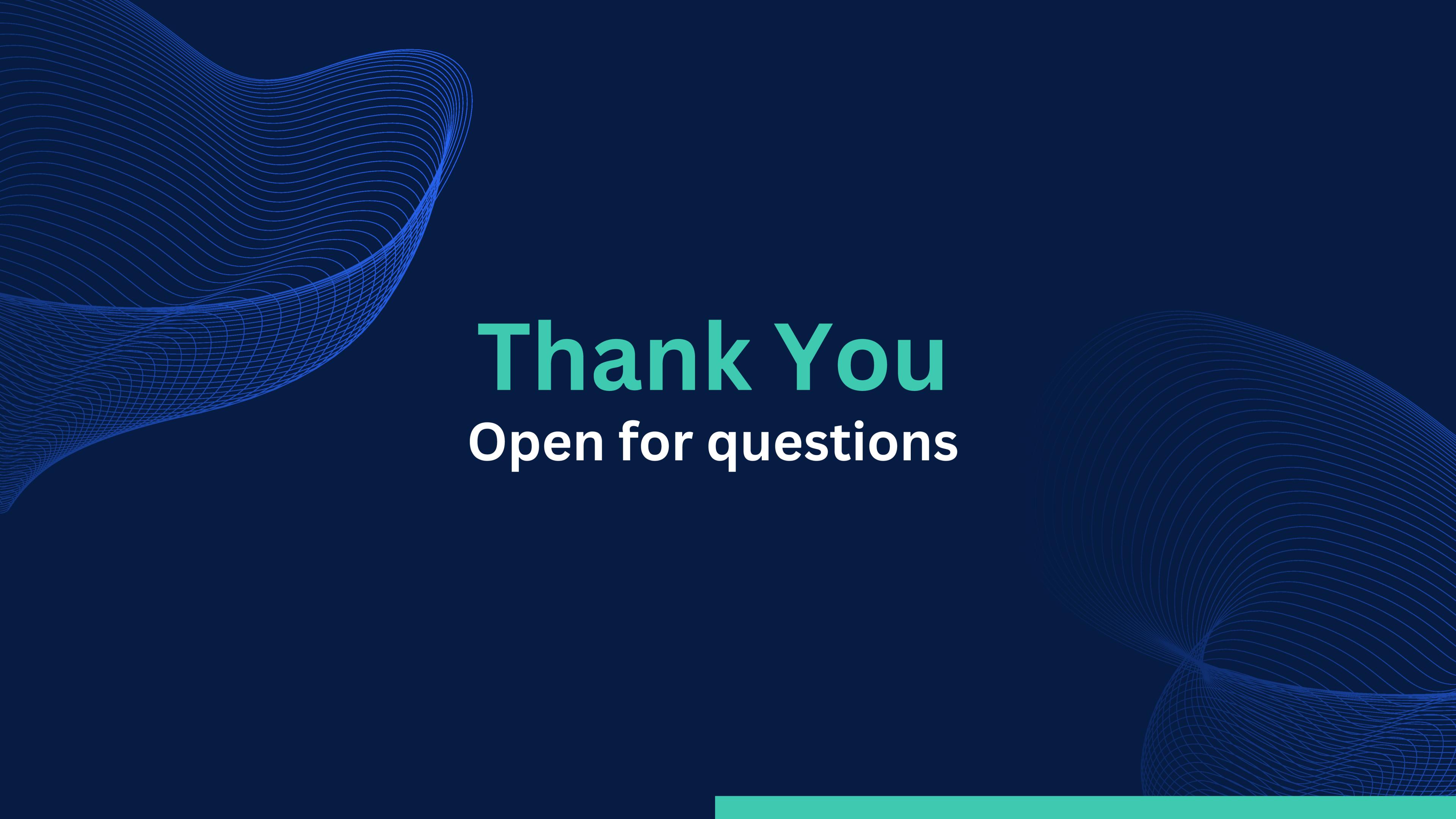
Team Member	Contribution
Terance	PHP web application framework development, view components with styles, handled users , authentication, club, profile, and event budgets
Raguram	View components with styles,handled event dashbaord ,admin dashboard and event sponsors and packages
Usama	View components with styles,handled admin dashboard, and event budgets and sponsors
Ramindu	View components with styles, handled club posts

Workload Distribution

Team member	Requirement analysis	Design and Development	Testing	Maintainence
Terance	Requirement Analysis	Event team, Club roles	Unit Testing	Improving UI / UX
Raguram	Feasibility Study	Event team, Club administrators	Integrated Testing	Performance Optimization
Usama	Project Scope Analysis	Student / User, Club in charge	System Testing	Bug Fixing
Ramindu	UML Design Workload and Timeline Design	System admin, Club administrators	Alpha Testing Beta Testing	System Security Optimizations



Demonstration



Thank You
Open for questions

Component Diagram

