



Welcome

This is E-Navit, helping you navigate
your way to our events

Login

Sign Up

Sign up using



E-NavIT

Helping you Navigate your way to our Events

School: SCOPE

Santhosh Kumar Santhanam 21BCE1829

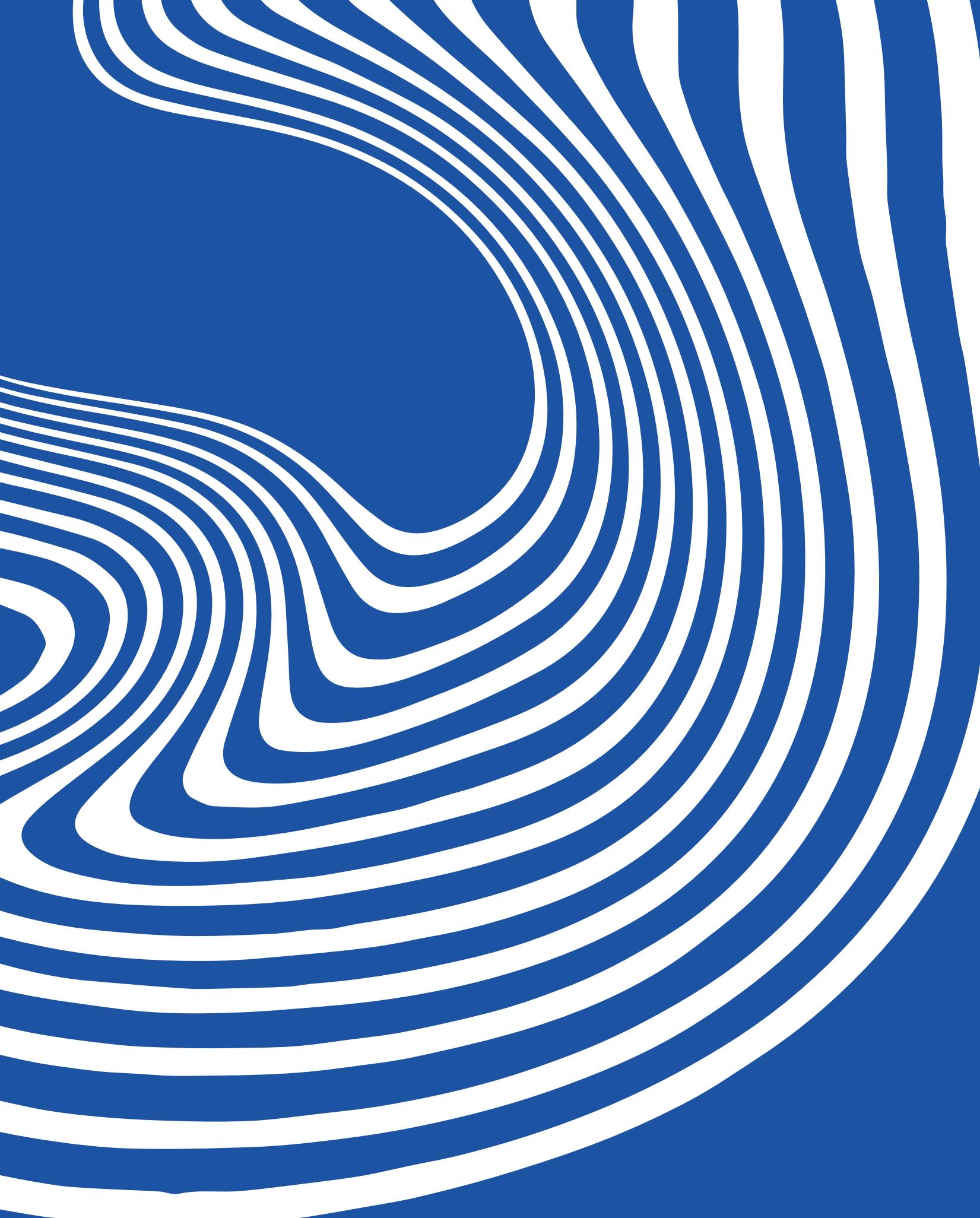
Thananjayan Selvarajan 21BCE5070

Mentored by: Dr. Janani T

A solution to address current challenges.

- **No Mobile App** - The current system lacks a mobile app, making it difficult for students to access event info easily.
- **Low Event Awareness** - Even though events are listed on a website, many students don't know about them due to poor communication.
- **Too Many WhatsApp Groups** - Student organizers create multiple WhatsApp groups for each event, overwhelming students with too many notifications.
- **Difficult to Propose Ideas** - Students find it hard to share their ideas with event approvers, complicating event planning.
- **Challenges in Tracking Participation** - Tracking student participation in events is difficult, leading to missed opportunities for recognition.



A large, abstract graphic on the left side of the slide features several concentric, wavy lines in varying shades of blue and white. These lines create a sense of depth and motion, resembling ripples in water or sound waves.

Introduction

The Vision

Our vision is to revolutionise event management by offering comprehensive solutions that streamline every aspect of event organisation and participation. We are committed to:

- **Efficient Event Management:** Provide a robust platform for viewing, editing, and managing events, ensuring a seamless experience for users at all levels.
- **Role-Based Access Control:** Implement a sophisticated user role system to clearly define and manage authorisations, enhancing security and functionality for different types of users.
- **Streamlined Approval Processes:** Simplify the process of event approval, making it more efficient and less cumbersome for organizers and stakeholders.
- **Effective Communication Channels:** Facilitate clear and direct communication between organizers and participants. This includes notifications for polls, venue changes, date adjustments, and attendance forms.
- **Scalability for Educational Institutions:** Extend our solution's capabilities to cater to the needs of schools and faculties, providing a tailored approach for managing academic events and activities.

By focusing on these key areas, we aim to create a dynamic and adaptable platform that meets the evolving needs of event management and enhances the overall experience for all users



Why Flutter?

- **Cross-Platform Compatibility:** Develop once, deploy on multiple platforms (iOS, Android, Web) using a single codebase, ensuring a consistent user experience across all devices.
- **Firebase Integration:** Seamless integration with Firebase allows real-time data synchronisation, authentication, and efficient cloud storage, simplifying backend management.
- **Rich UI/UX:** Flutter's rich widget library and customizable components enable the creation of visually appealing and highly responsive user interfaces.



Why Firebase

- **Easy Flutter Integration:** Firebase seamlessly integrates with Flutter, allowing for efficient backend management and real-time data handling.
- **Familiarity with NoSQL:** The institute currently uses MongoDB, and Firebase offers a similar NoSQL database structure, making it easier for the team to adapt and maintain consistency in data management.
- **Real-Time Database:** Firebase provides real-time data synchronization, ensuring instant updates across all devices.
- **Authentication:** Secure, simple-to-implement user authentication, with support for multiple login methods.
- **Scalability:** Automatically scales with usage, ideal for handling varying event sizes.



Firebase Collection Data Models

```
List<String> approvalAttributes = [  
    'clubId',  
    'dateTime',  
    'description',  
    'approvalId',  
    'eventName',  
    'location',  
    'organisers',  
    'approved',  
    'discussionPoints',  
    'eventType',  
    'eventCategory',  
    'fdpProposedBy',  
    'schoolCentre',  
    'coordinator1',  
    'coordinator2',  
    'coordinator3',  
    'budget'  
];
```

```
List<String> eventAnnouncementsAttributes = [  
    'eventId',  
    'eventName',  
    'announcement',  
    'announcementId',  
    'dateTime',  
    'userId',  
    'userName'  
];
```

```
List<String> clubAttributes = [  
    'clubId',  
    'clubName',  
    'bio',  
    'email',  
    'events',  
    'approvers',  
    'followers'  
];
```

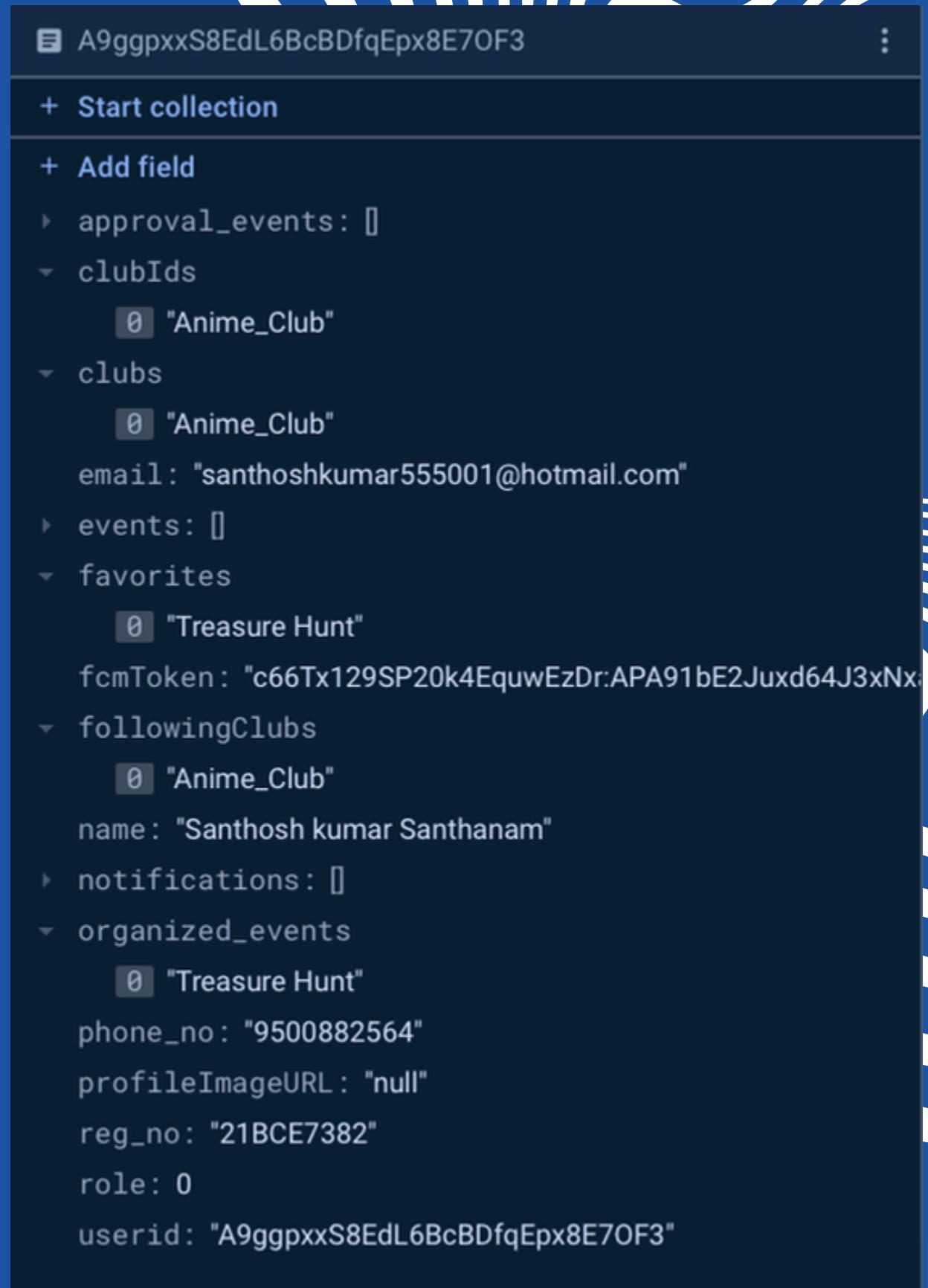
```
List<String> eventAttributes = [  
    'clubId',  
    'dateTime',  
    'description', 'eventId',  
    'eventName', 'location',  
    'fee', 'organisers',  
    'likes', 'comments',  
    'participants', 'eventImageURL',  
    'discussionPoints', 'eventType',  
    'eventCategory', 'fdpProposedBy',  
    'schoolCentre', 'coordinator1',  
    'coordinator2', 'coordinator3',  
    'attendancePresent',  
    'issues',  
    'expense',  
    'expectedRevenue',  
    'budget',  
    'revenue'  
];
```

The Database

We have simulated a mock database with realistic entries, representing students across all four roles—Participant, Club Member, Organizer, and Captain—as well as faculties in Approver roles, along with detailed records for events and clubs.

App Users

- **approval_events:** List of events pending approval for this user.
- **clubIds:** Identifiers of the clubs the user is associated with.
- **email:** The user's email address for communication and account management
- **events:** List of events associated with the user.
- **favorites:** List of events marked as favorites by the user.
- **fcmToken:** Unique token for push notifications via Firebase Cloud Messaging.
- **followingClubs:** List of clubs the user follows.
- **name:** The full name of the user.
- **organized_events:** List of events organized by the user.
- **profileImageURL:** URL for the user's profile image (if any).
- **reg_no:** The user's registration number for identification.
- **role:** Numeric representation of the user's role.
- **userid:** Unique identifier for the user in the database.



The screenshot shows a MongoDB interface with a single document. The document ID is A9ggpxxS8EdL6BcBDfqEpx8E70F3. The structure of the document is as follows:

- + Start collection
- + Add field
- approval_events: []
- clubIds:
 - 0: "Anime_Club"
- clubs:
 - 0: "Anime_Club"
- email: "santhoshkumar555001@hotmail.com"
- events: []
- favorites:
 - 0: "Treasure Hunt"
- fcmToken: "c66Tx129SP20k4EquwEzDr:APA91bE2Juxd64J3xNx:"
- followingClubs:
 - 0: "Anime_Club"
- name: "Santhosh kumar Santhanam"
- notifications: []
- organized_events:
 - 0: "Treasure Hunt"
- phone_no: "9500882564"
- profileImageURL: "null"
- reg_no: "21BCE7382"
- role: 0
- userid: "A9ggpxxS8EdL6BcBDfqEpx8E70F3"

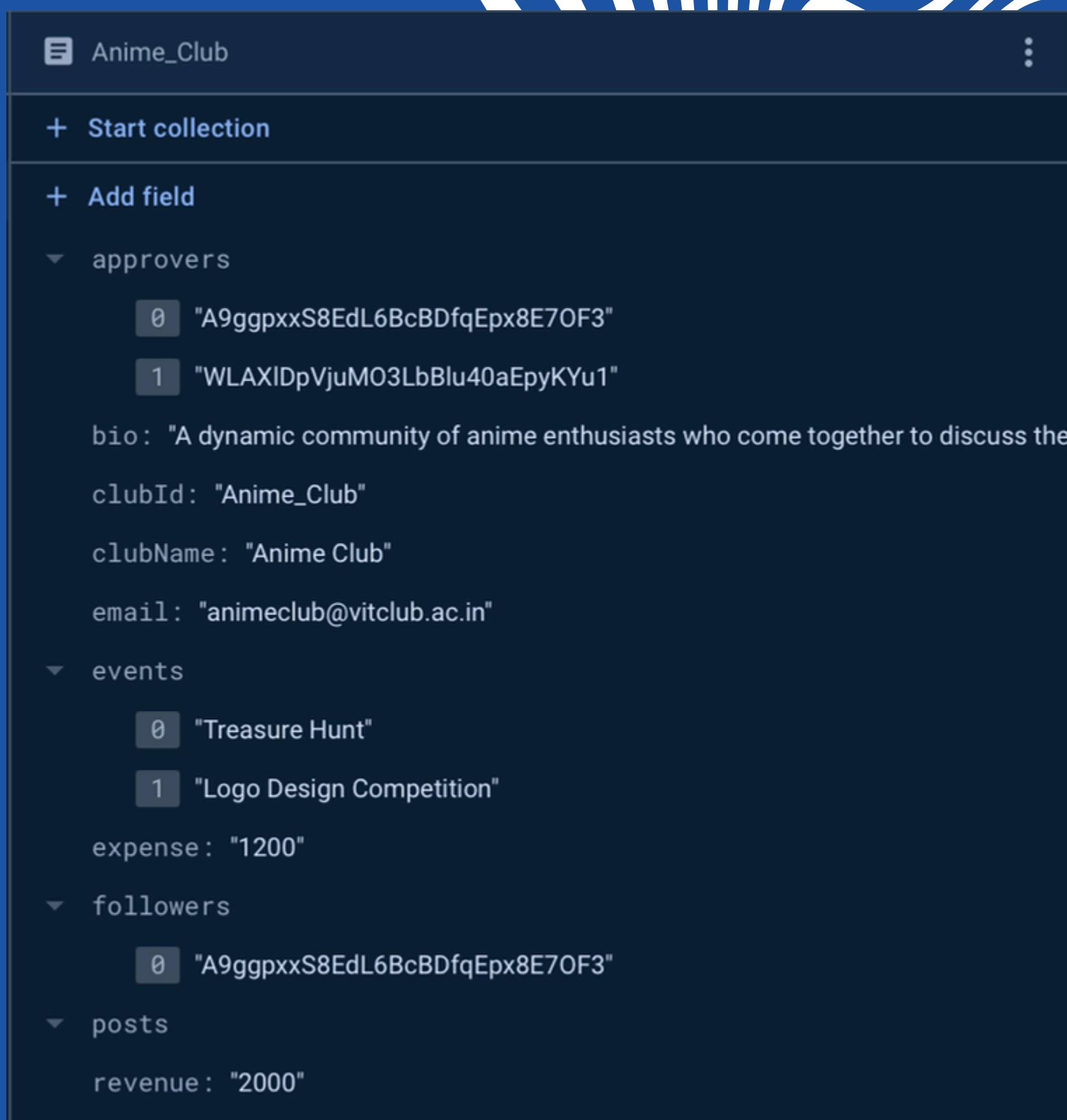
Events

- **attendancePresent**: Array of user IDs representing individuals present at the event.
- **budget**: The allocated budget for the event.
- **clubId**: Unique identifier for the club.
- **comments**: Map containing user comments about the event.
- **coordinators**: Names of the individuals coordinating the event.
- **description**: A brief description of the event.
- **discussionPoints**: Key points discussed during the event.
- **eventId**: Unique identifier for the event.
- **eventName**: Name of the event.
- **eventType**: Type of the event.
- **expense**: Total expenses incurred for the event.
- **fdpProposedBy**: Name of the individual who proposed the event.
- **fee**: Participation fee for the event.
- **issues**: Map containing any issues reported during the event.
- **likes**: Number of likes the event received.
- **participants**: Array of user IDs representing participants of the event.
- **revenue**: Total revenue generated by the event.
- **schoolCentre**: The school or center associated with the event.

```
Tree Treasure Hunt
+ Start collection
+ Add field
- attendancePresent
  0 "SdzDiWRd8ITHX7arPQNZh13nwdF3"
  1 "7REv2ngbynMlldi0kvK89dSgaZn2"
  budget: "5000"
  clubId: "Anime_Club"
- comments
  user1: "Loved the One Piece references! Must try event!"
  coordinator1: "Santhosh"
  coordinator2: "Kumar"
  coordinator3: "Santhanam"
- dateTime
  endTime: August 21, 2024 at 2:00:00 PM UTC+5:30
  startTime: August 21, 2024 at 11:35:00 PM UTC+5:30
  description: "Find your One Piece And Win Exciting Prices"
  discussionPoints: "Finding OP"
  eventCategory: "Entertainment"
  eventId: "Treasure Hunt"
  eventImageURL: "https://firebasestorage.googleapis.com/v0/b/SCOPE-5f34a.appspot.com/o/events%2FTreasure-hunt%2Fimage.jpg?alt=media&t=1687188500000"
  eventName: "Treasure Hunt"
  eventType: "Treasure Hunt"
  expense: "500"
  fdpProposedBy: "Captain"
  fee: "500"
- issues
  likes: 1
  location: "Amphi Theatre AB1"
- organisers
  0 "A9ggpxxS8EdL6BcBDfqEpx8E70F3"
  1 "WLAXIDpVjuMO3LbBlu40aEpyKYu1"
- participants
  0 "7REv2ngbynMlldi0kvK89dSgaZn2"
  1 "SdzDiWRd8ITHX7arPQNZh13nwdF3"
  revenue: "1000.0"
  schoolCentre: "SCOPE"
```

Clubs

- **approvers:** List of user IDs representing individuals responsible for approving club activities and events.
- **bio:** A detailed description of the club, including its activities, interests, and community focus.
- **clubId:** Unique identifier for the club.
- **clubName:** Name of the club.
- **email:** Official email address of the club used for communication.
- **events:** List of events organized or associated with the club.
- **followers:** List of user IDs representing individuals who follow the club.
- **expense:** Total expenses related to club activities or events.
- **revenue:** Total revenue generated by the club's activities.
- **posts:** Array of posts associated with the club.



The screenshot shows a MongoDB document named "Anime_Club". The document structure is as follows:

- approvers:** An array containing two elements:
 - 0: "A9ggpxxS8EdL6BcBDfqEpx8E70F3"
 - 1: "WLAXIDpVjuM03LbBlu40aEpyKYu1"
- bio:** "A dynamic community of anime enthusiasts who come together to discuss the latest anime releases and trends."
- clubId:** "Anime_Club"
- clubName:** "Anime Club"
- email:** "animeclub@vitclub.ac.in"
- events:** An array containing two elements:
 - 0: "Treasure Hunt"
 - 1: "Logo Design Competition"
- expense:** "1200"
- followers:** An array containing one element:
 - 0: "A9ggpxxS8EdL6BcBDfqEpx8E70F3"
- posts:** An array containing one element:
 - 0: {**revenue:** "2000"}

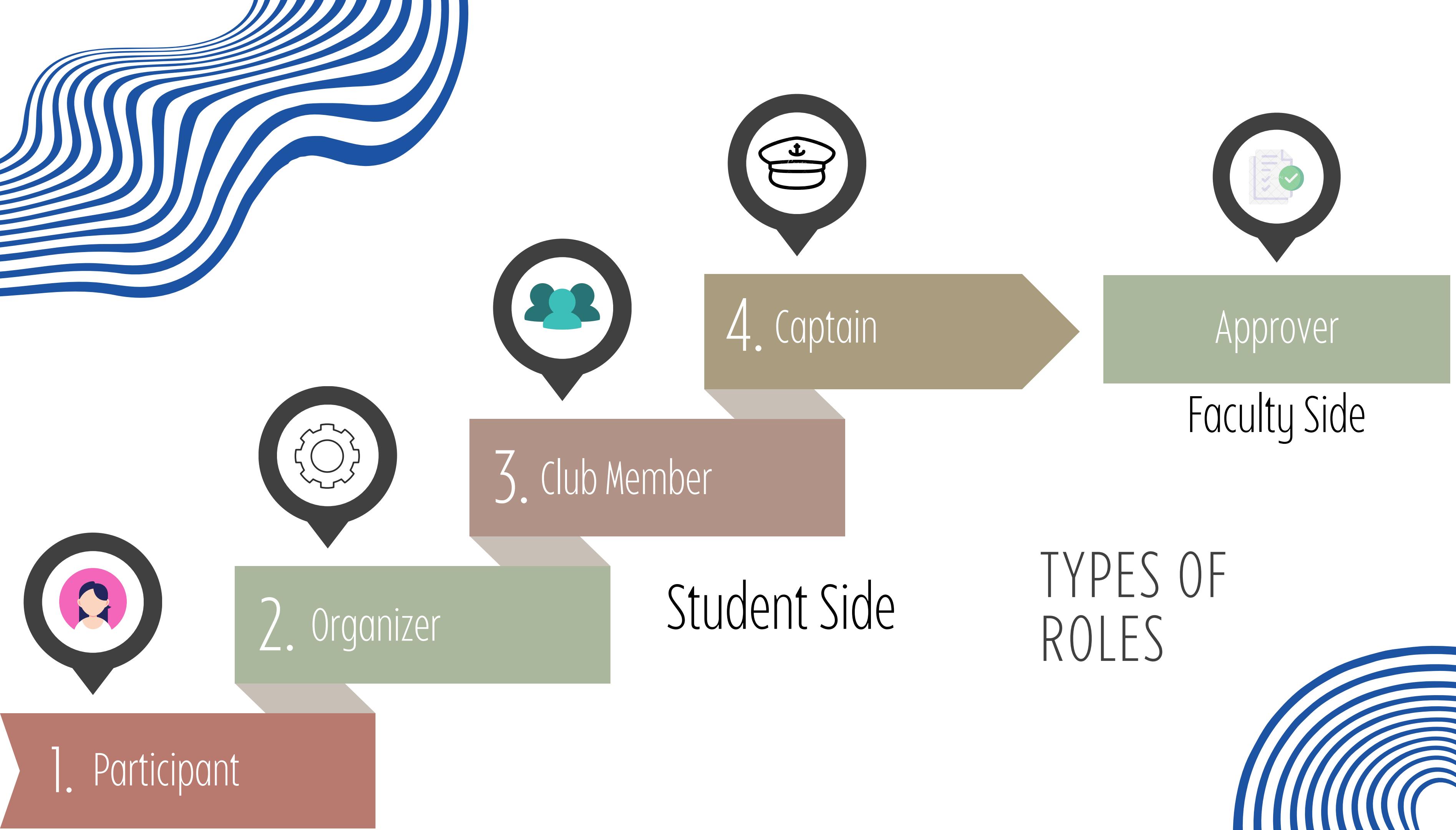
Approvals

- **approvalId:** Unique identifier for the approval process related to the event.
- **approved:** Status indicator showing the number of approvals the event has received.
- **budget:** The allocated budget for the event.
- **clubId:** Identifier for the club organizing the event.
- **coordinators:** Names of the coordinators responsible for managing the event.
- **dateTime:** Start and end times of the event.
- **description:** Brief overview of the event's purpose and activities.
- **eventCategory:** Classification of the event, such as "Entertainment".
- **eventName:** Name of the event.
- **location:** The venue where the event will take place.
- **organisers:** List of user IDs for the event organizers.
- **schoolCentre:** The academic school or center proposing or supporting the event.

28163e10-3212-10e3-95df-61b63a6d57e5	⋮
+ Start collection	
+ Add field	
approvalId: "28163e10-3212-10e3-95df-61b63a6d57e5"	
approved: 3	
budget: "2000"	
clubId: "Film_Society"	
coordinator1: "Santhosh"	
coordinator2: "Thananjayan"	
coordinator3: "Rasheed"	
dateTime	
endTime: August 15, 2024 at 7:35:00 PM UTC+5:30	
startTime: August 14, 2024 at 7:35:00 PM UTC+5:30	
description: "Express the inner photographer in you and win prizes."	
discussionPoints: "Make sure the submissions are below 5 MB"	
eventCategory: "Entertainment"	
eventName: "Photograph Hunt"	
eventType: "Entertainment"	
fdpProposedBy: "SCOPE"	
location: "AB1 505"	
organisers	
0 "kBm7TDAkjyTSV8DisavuuuthSs92"	
1 "47bXGfiyEXchf528yAr2pJGNzg1"	
schoolCentre: "SCOPE"	



Roles and Responsibilities in ENAVIT



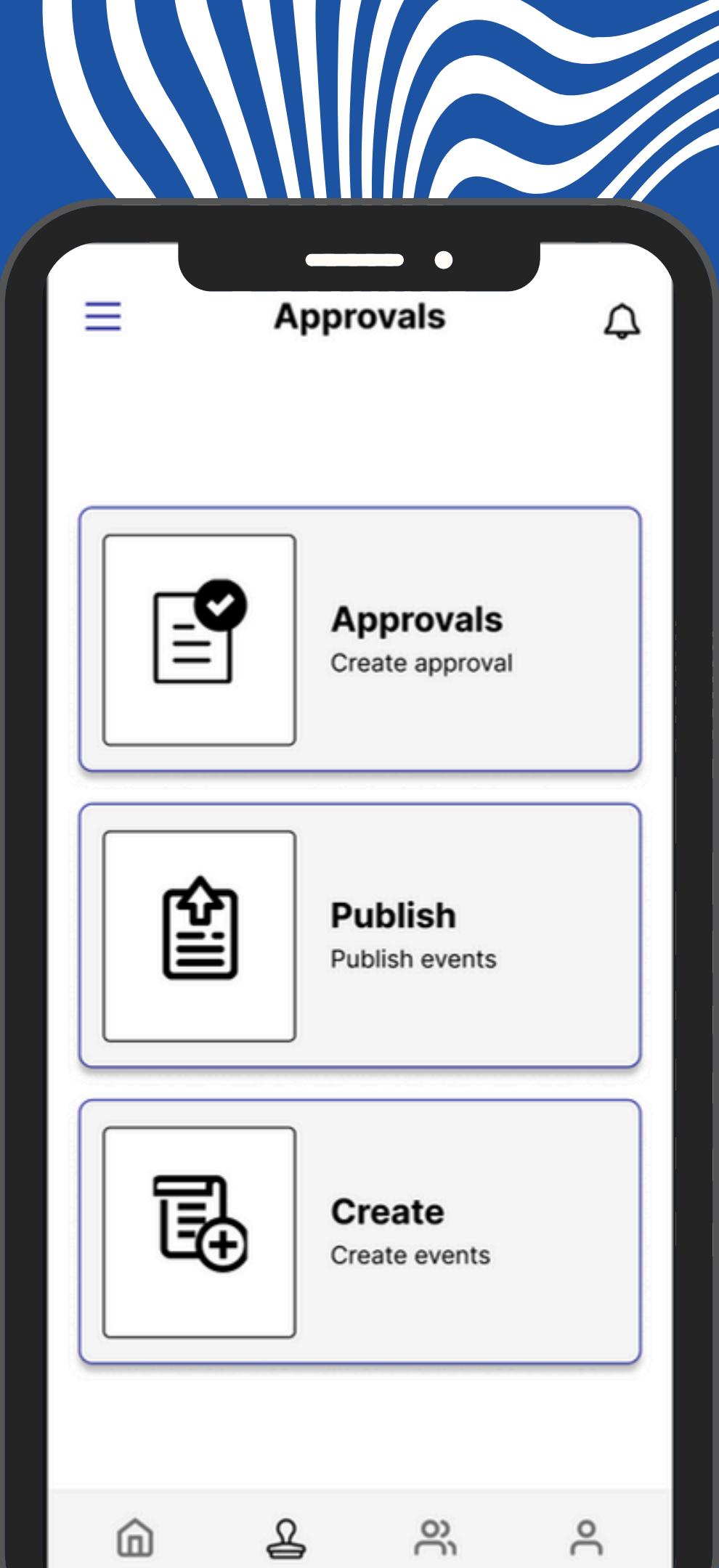


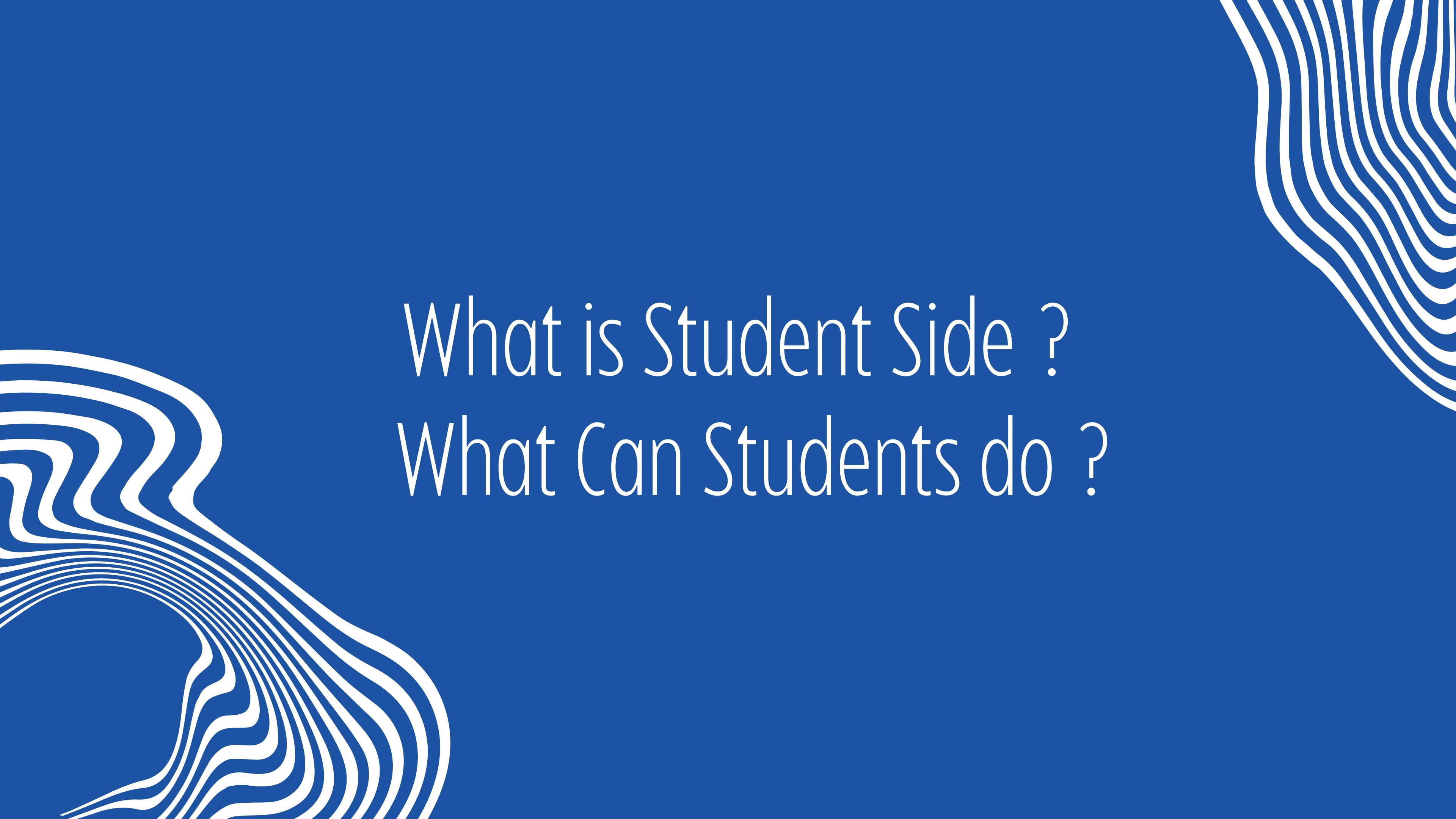
What is Faculty Side ?
What Can Approvers do ?

Approvers

Commanding the Event Space

- **Create & Publish Events:** Complete control to initiate and launch events directly.
- **Monitor Performance:** Gain insights with access to detailed event and club statistics.
- **Gatekeeper Role:** Approve or decline event requests, ensuring quality and relevance.
- **Assign Roles:** Designate Captains, Club Members, and Organisers to ensure effective leadership.
- **Broadcast Updates:** Upload and share posts to keep everyone informed and engaged.





What is Student Side ?
What Can Students do ?



Various Roles as Students

Participants

- Easily join events.
- Review their participation history.

Organisers

- View and manage events they've organized.
- Maintain a record of their contributions.

Club Members

- Propose events for approval.
 - Access club statistics.
 - Track the impact of organized events.
- 

Captains

Driving Club Success

Initiate Events

Submit event requests directly to approvers for approval.

Manage Club Details

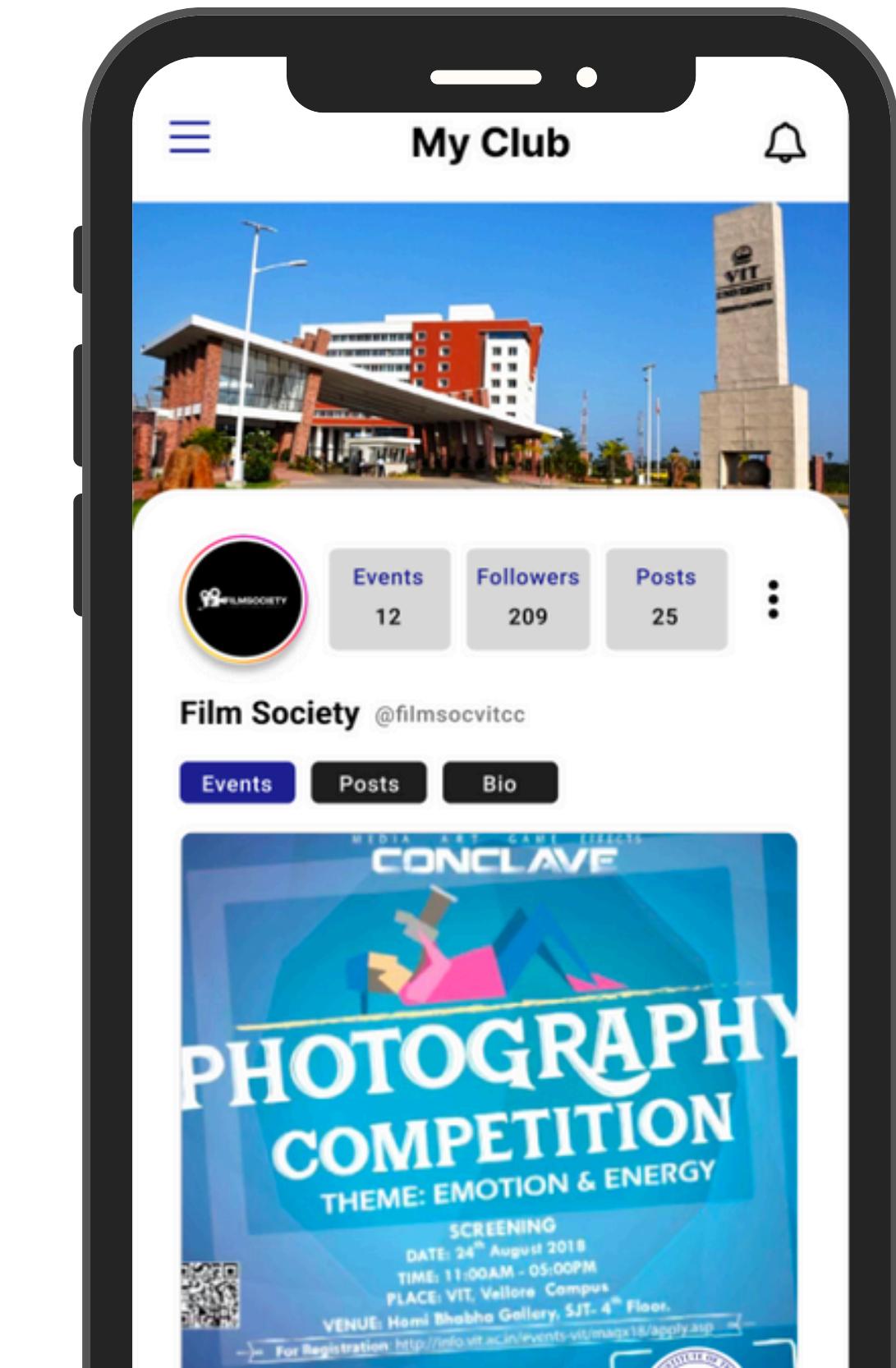
Keep club information up-to-date and monitor performance stats.

Lead the Team

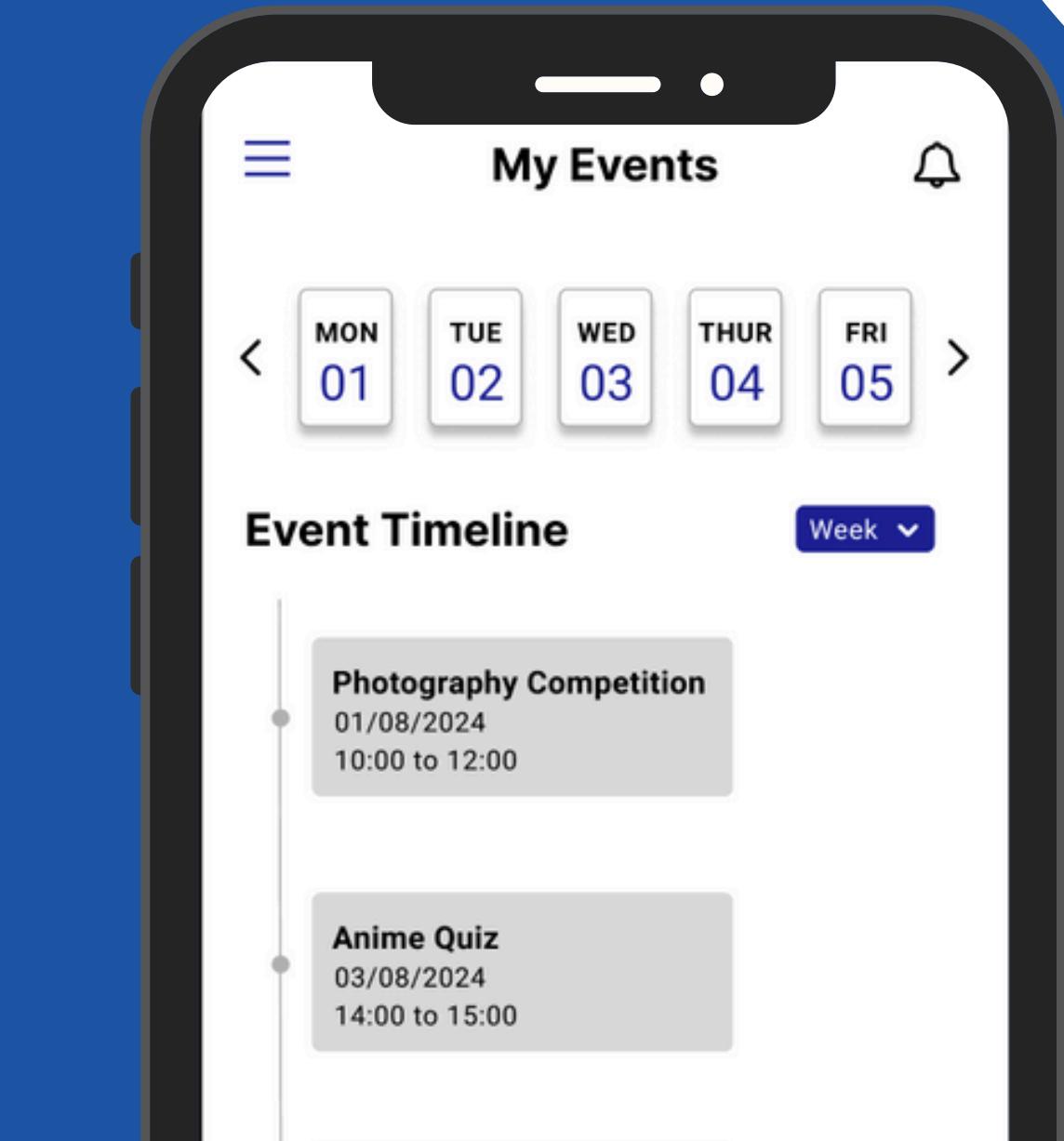
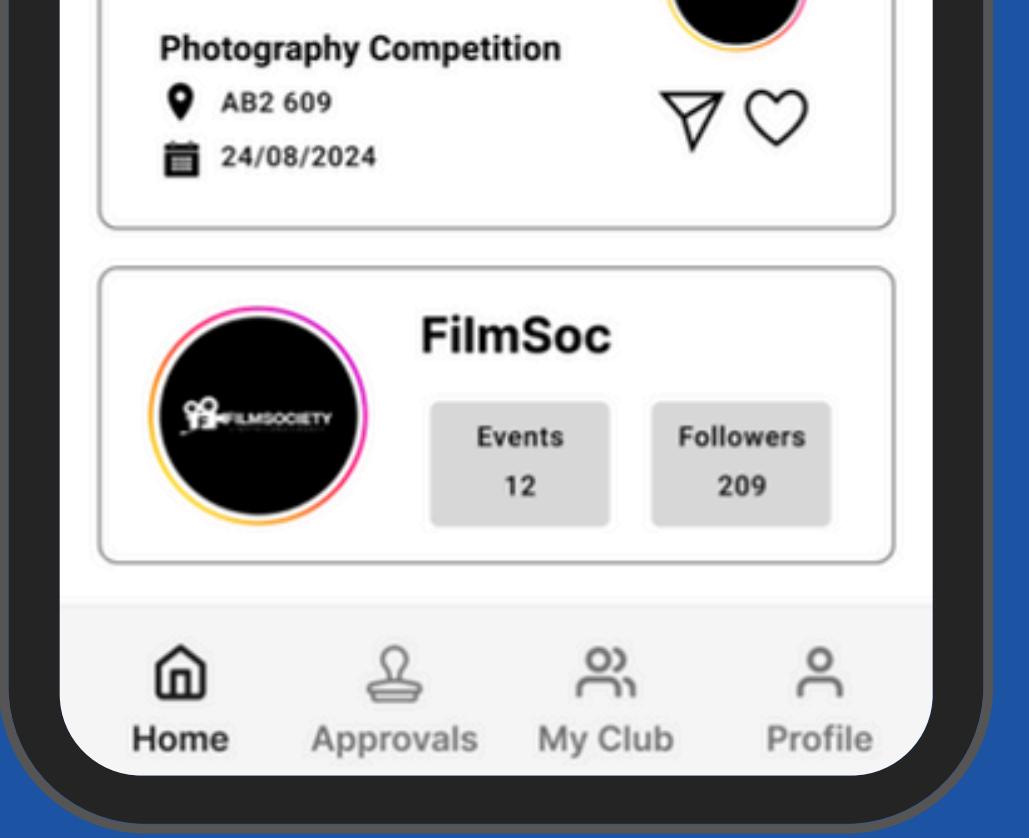
Appoint organisers and club members to build a strong team.

Publish with Precision

Finalize and publish events after approval.



UI Features



User Authentication

The image shows two smartphones side-by-side against a blue background with white concentric circles.

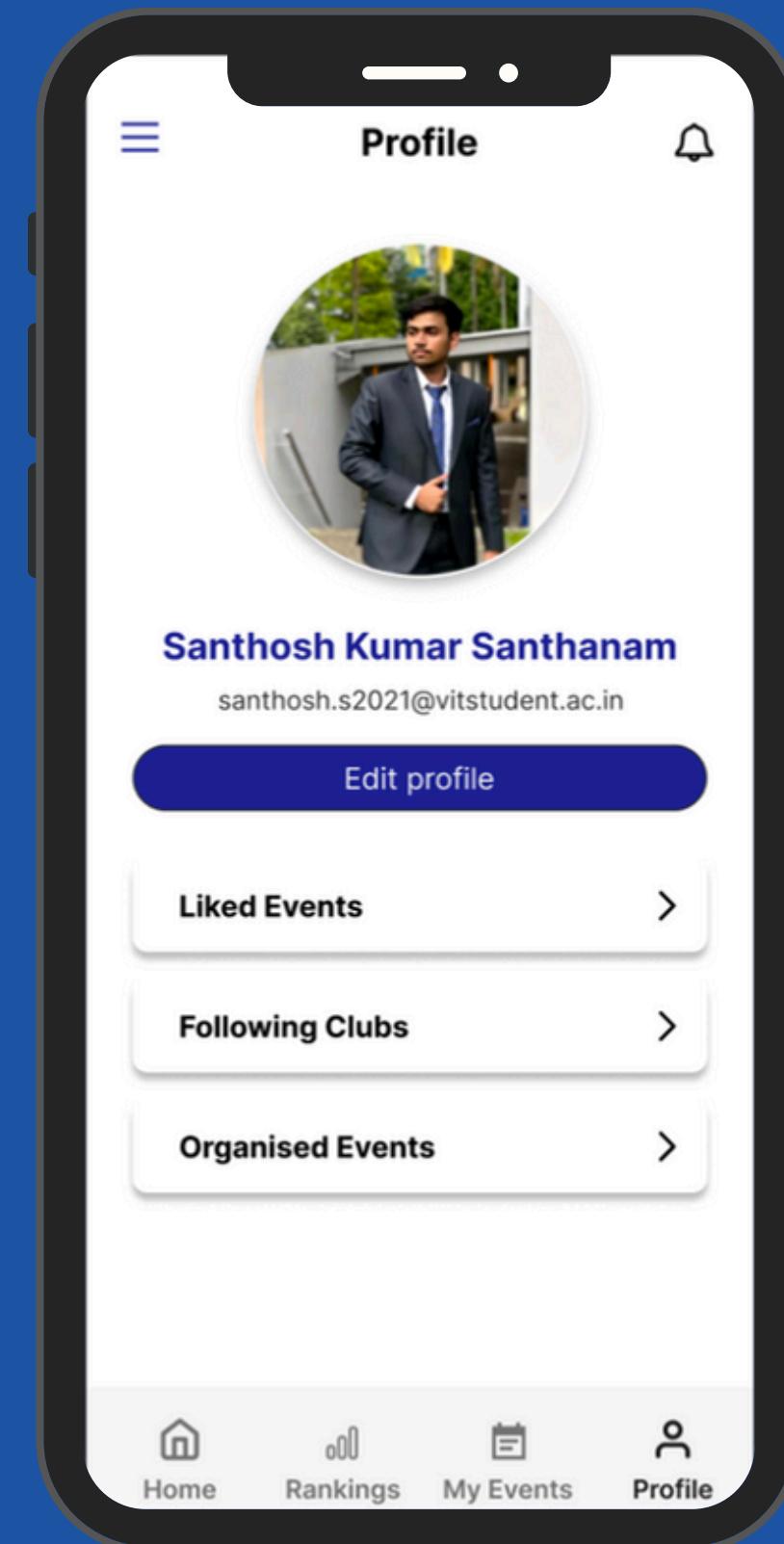
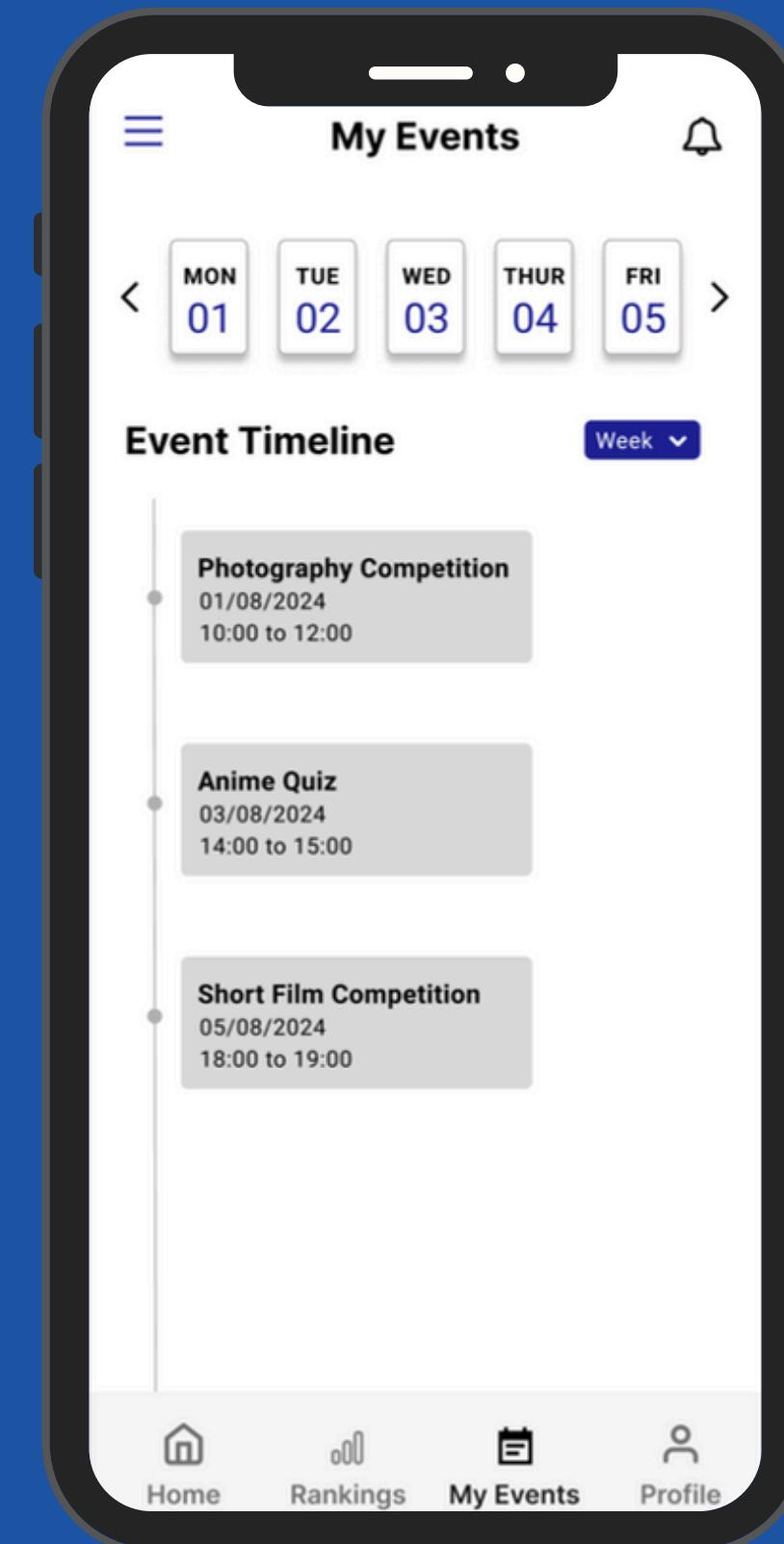
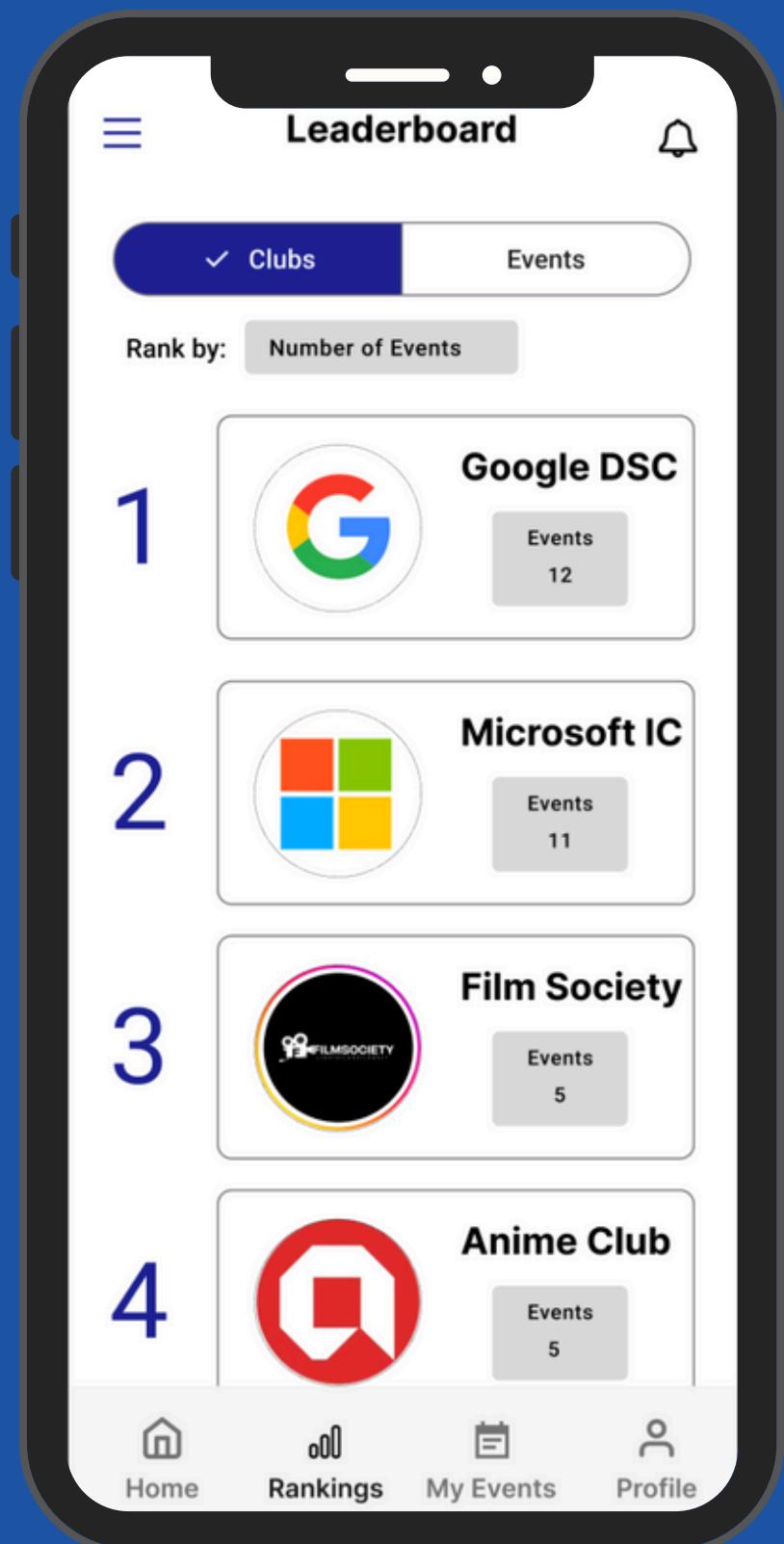
Smartphone on the left (Login Screen):

- Header: VELLORE INSTITUTE OF TECHNOLOGY (in English) and வெள்ளூர் திட்டம் (in Tamil).
- Logo: VIT logo.
- Title: Welcome
- Description: This is E-Navit, helping you navigate your way to our events
- Buttons: Login (blue), Sign Up (black)
- Text: Sign up using (Facebook, Google, LinkedIn icons)

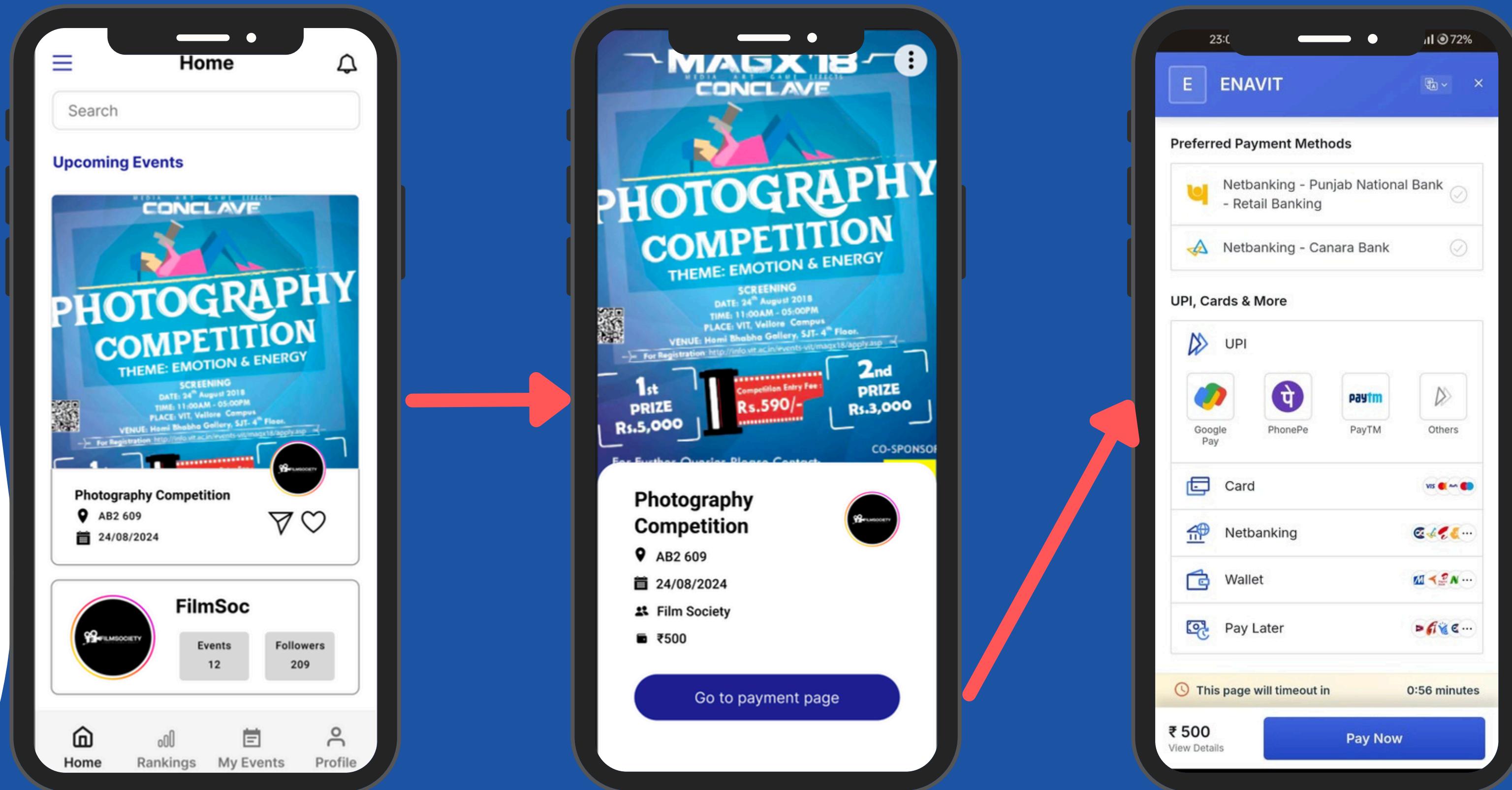
Smartphone on the right (Welcome Back Screen):

- Header: Welcome Back
- Inputs: Email, Password
- Checkboxes: Remember me (checked)
- Buttons: Log in (blue), Forgot password?
- Text: Sign up with (LinkedIn, Google, Facebook icons)
- Text: Don't have an account? [Sign up](#)

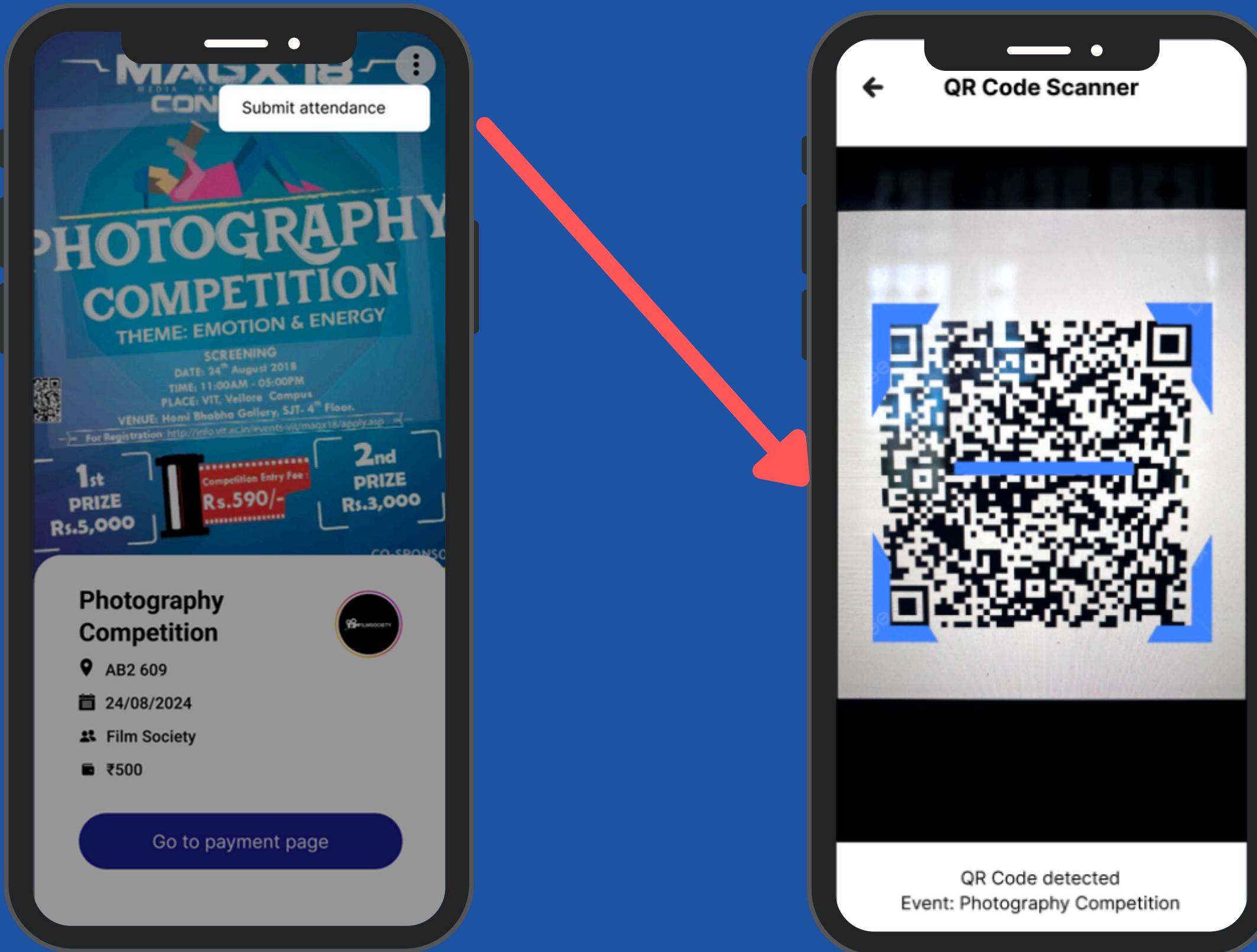
Participant Side



Event Participation Flow



Attendance Marking Flow



Leaderboard

The image displays three mobile phone screens illustrating a club management application's user interface, specifically focusing on the Leaderboard feature.

Screen 1: Home Screen

This screen shows the Vellore Institute of Technology (VIT) logo at the top. Below it is a navigation bar with icons for Home, About, Feedback, and Leaderboard. A sidebar on the right contains cards for "PHYON ENERGY", "sign etition", and "Zero Bugs". At the bottom are "Log out" and "Profile" buttons.

Screen 2: Leaderboard - Clubs

This screen shows a list of clubs ranked by the number of events they have organized. The clubs listed are:

Rank	Club	Events
1	Google DSC	12
2	Microsoft IC	11
3	Film Society	5
4	Anime Club	5
5	Zero Bugs	3

A dropdown menu titled "Rank by:" is open, showing options: Number of events (selected), Revenue generated, and Number of followers.

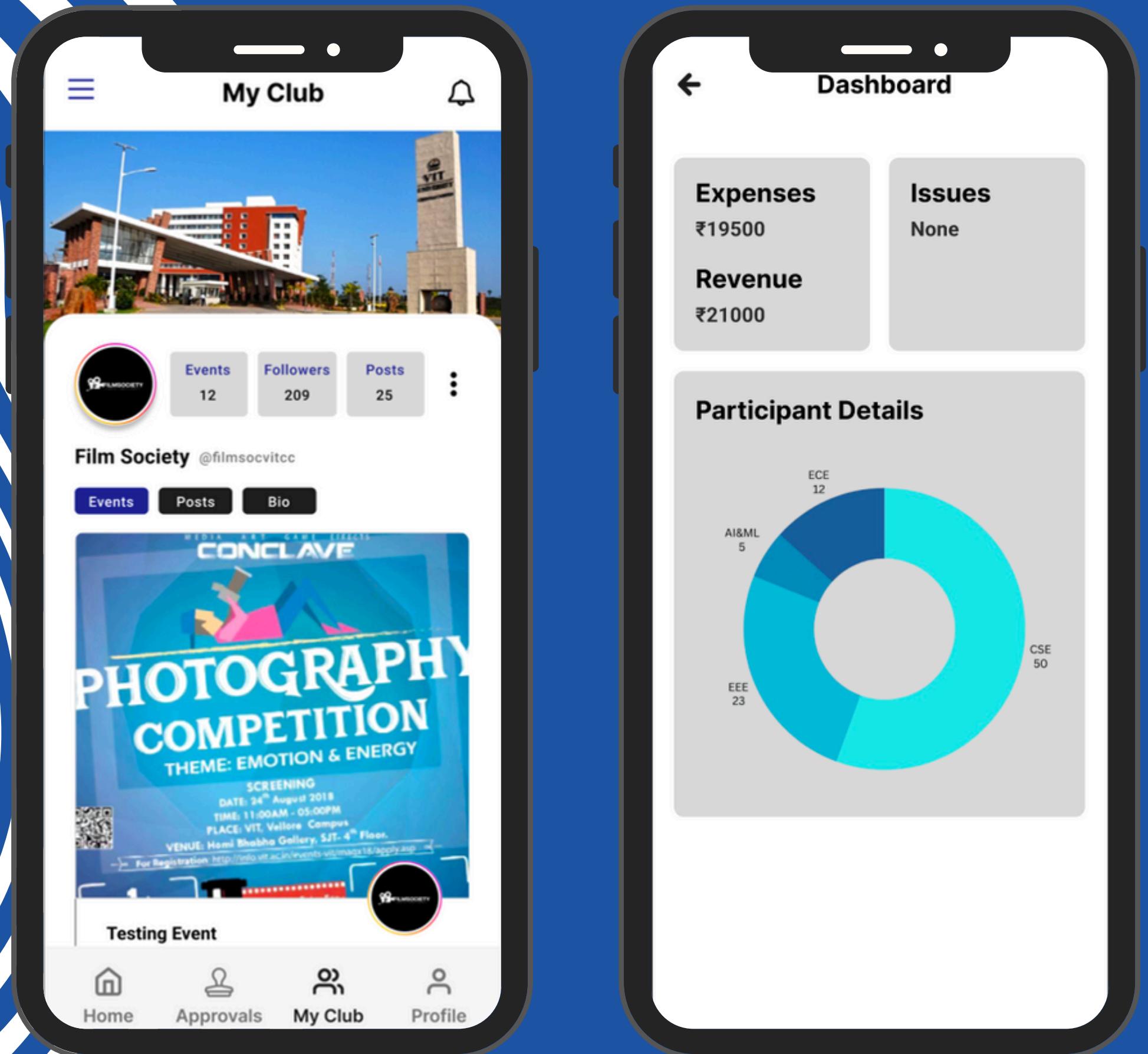
Screen 3: Leaderboard - Events

This screen shows a list of clubs ranked by the number of events they have organized. The clubs listed are:

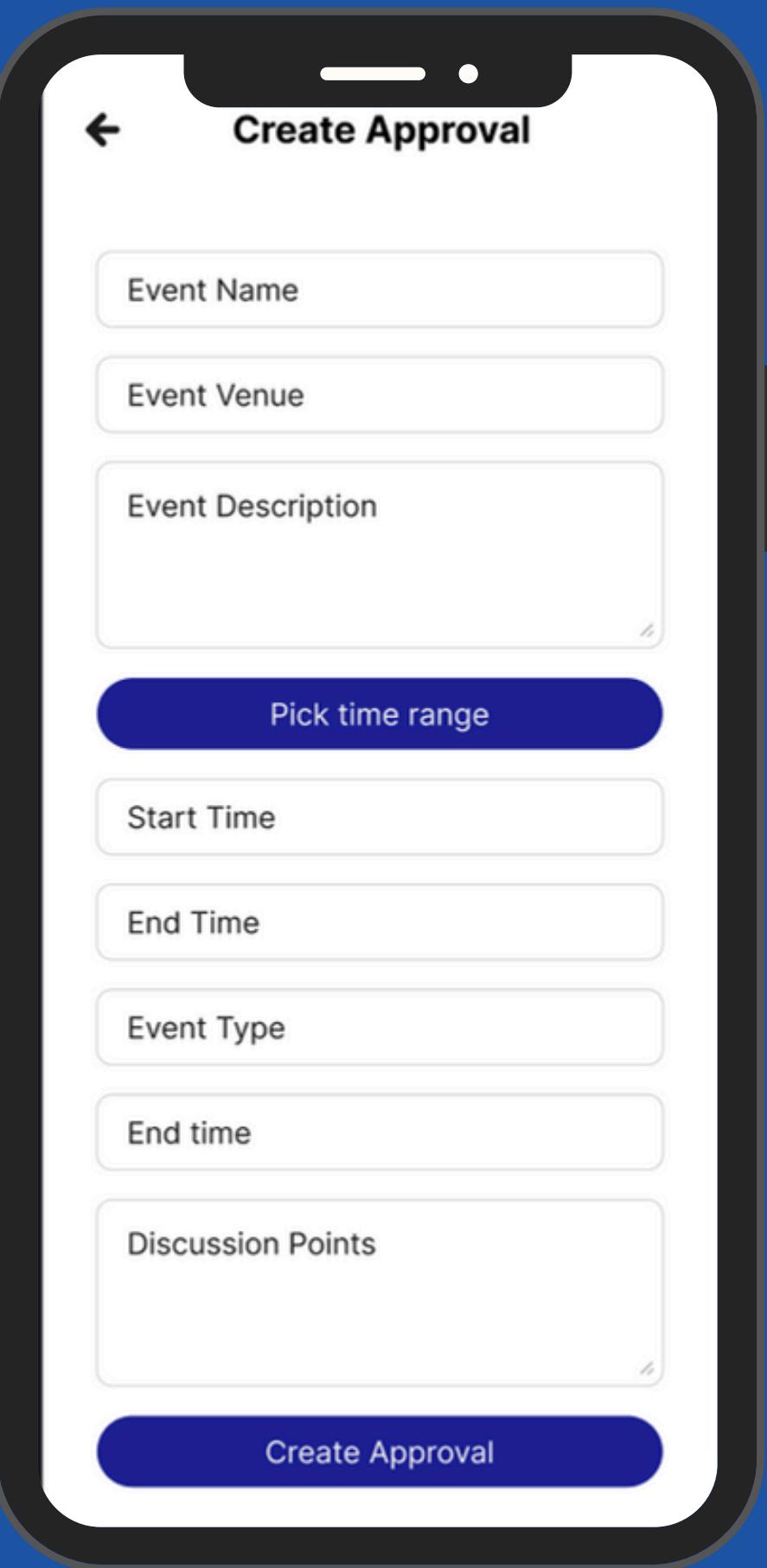
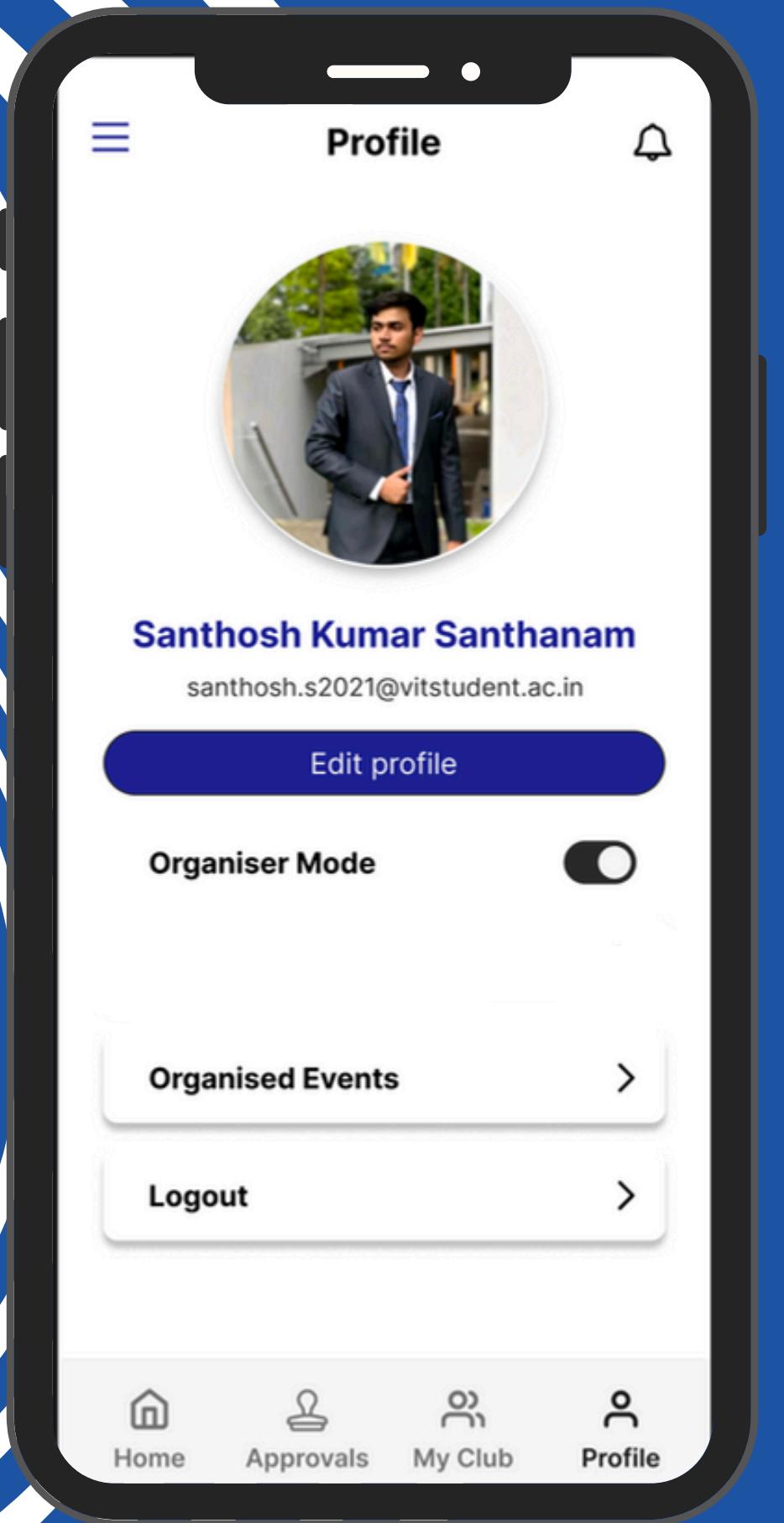
Rank	Club	Events
1	Google DSC	12
2	Microsoft IC	11
3	Film Society	5
4	Anime Club	5
5	Zero Bugs	3

A dropdown menu titled "Rank by:" is open, showing options: Number of events (selected), Revenue generated, and Number of followers.

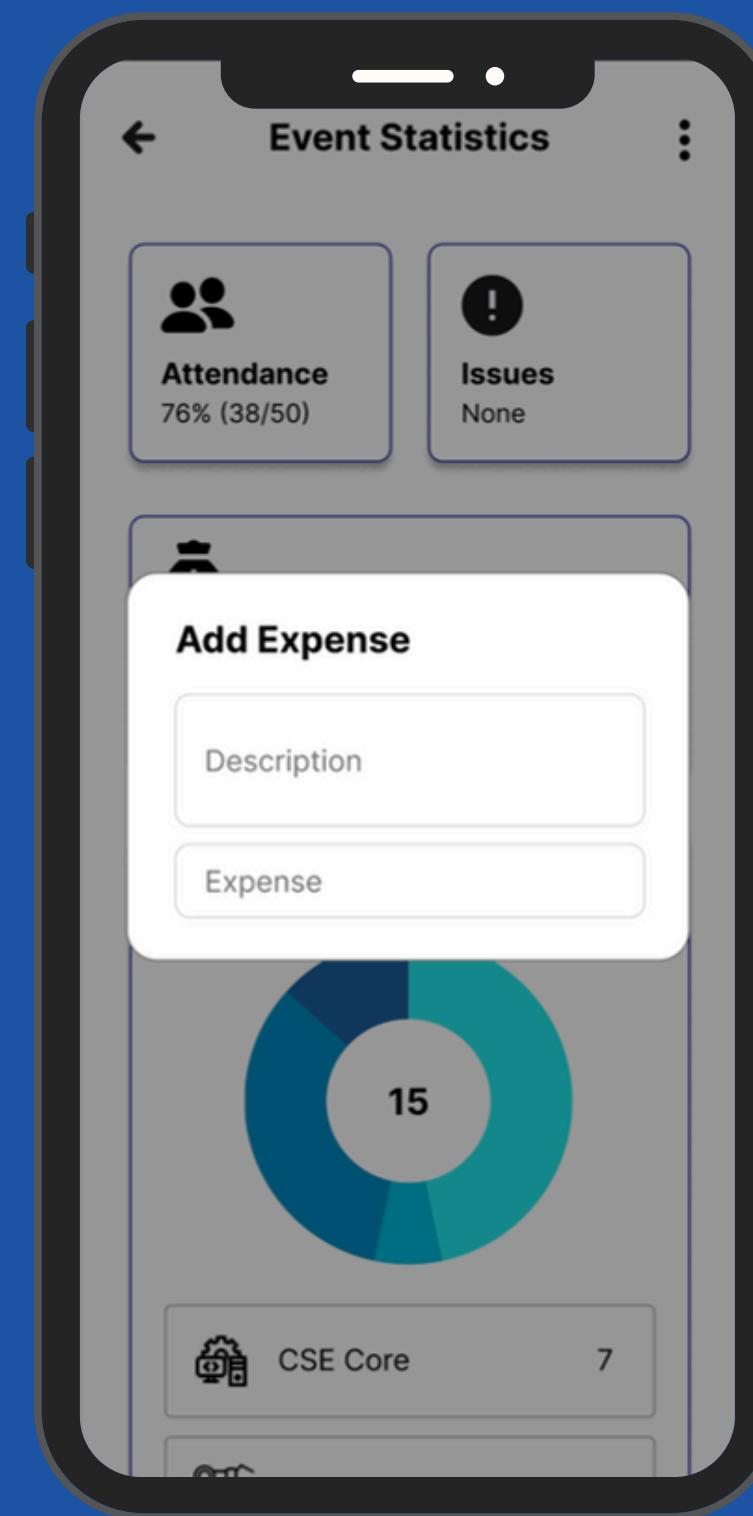
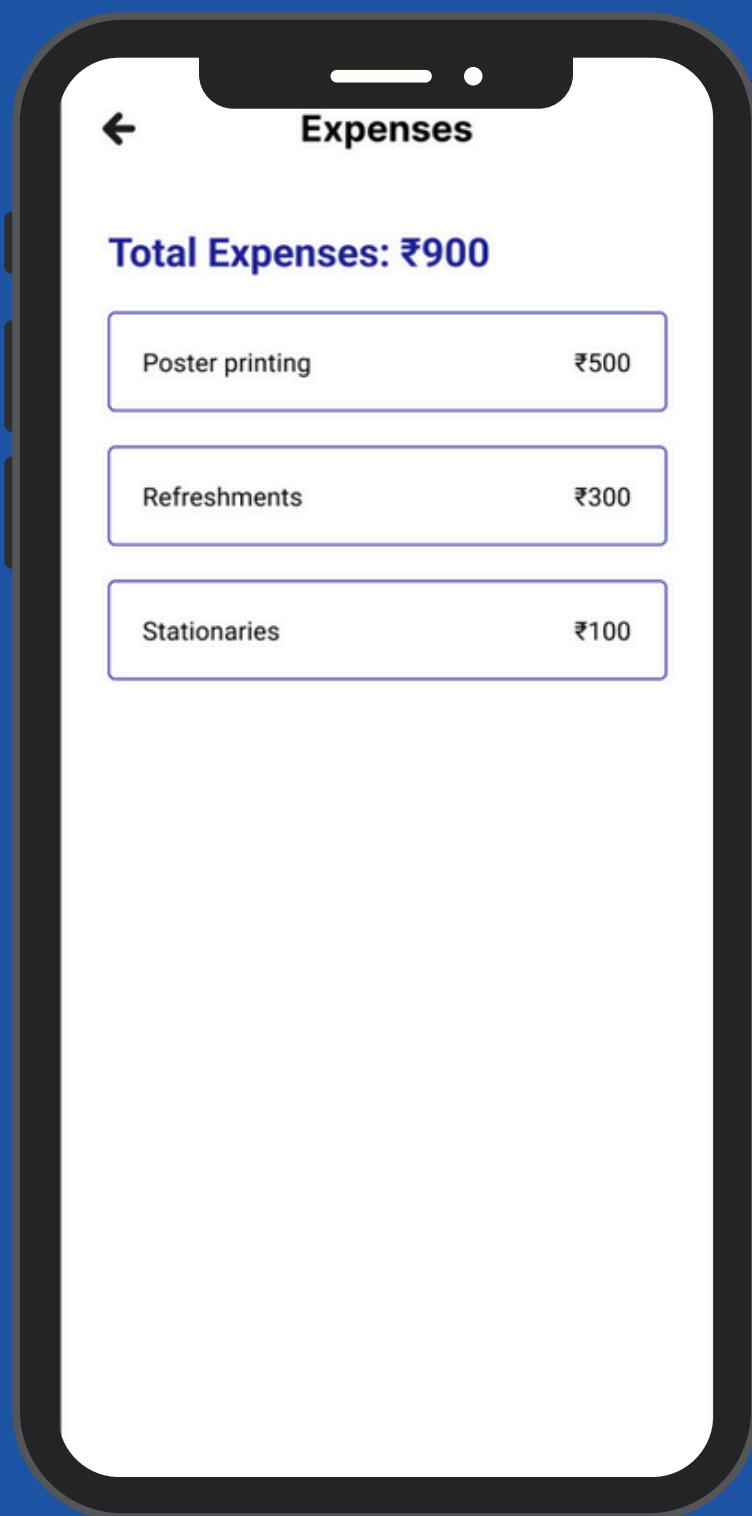
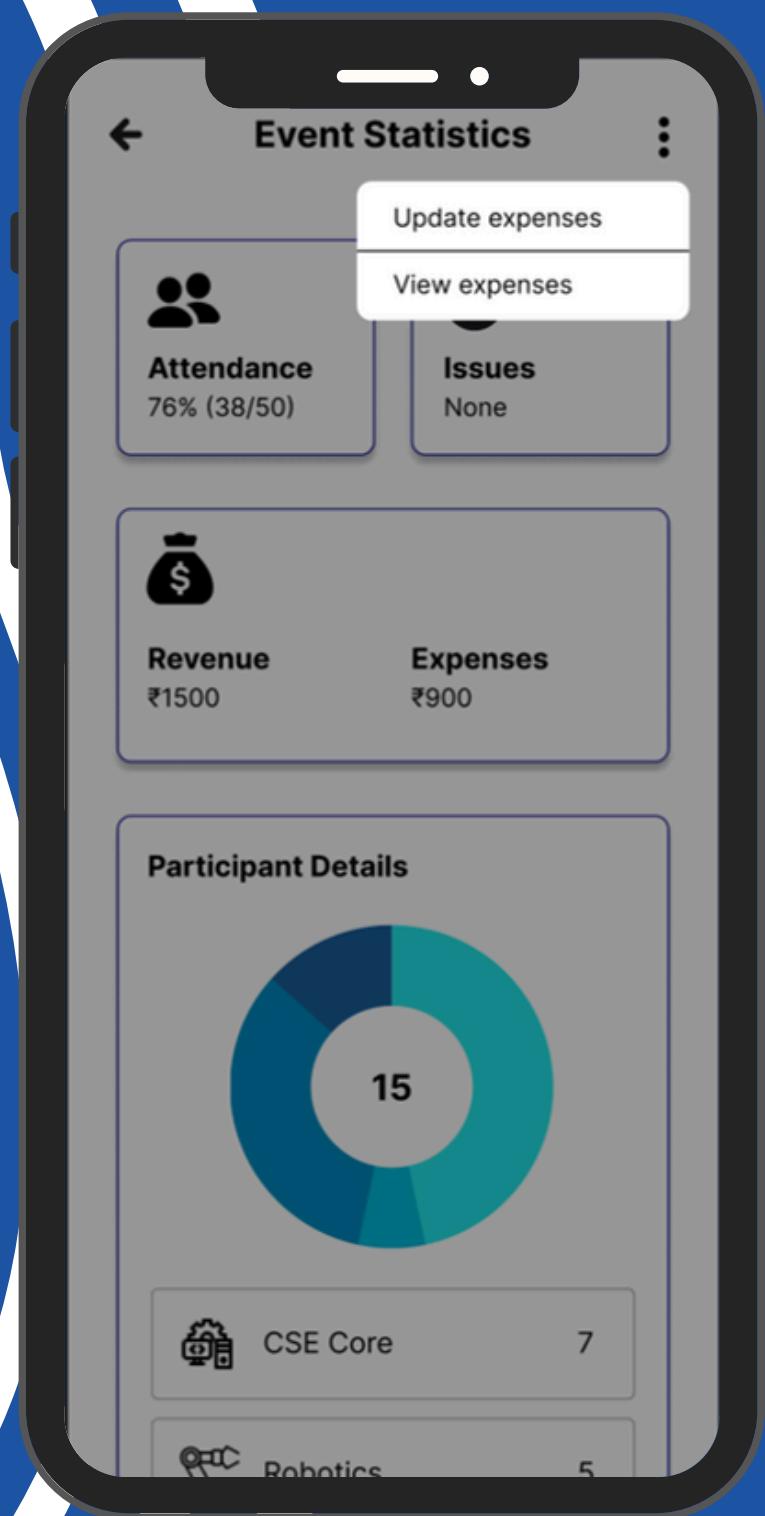
Club Member Side



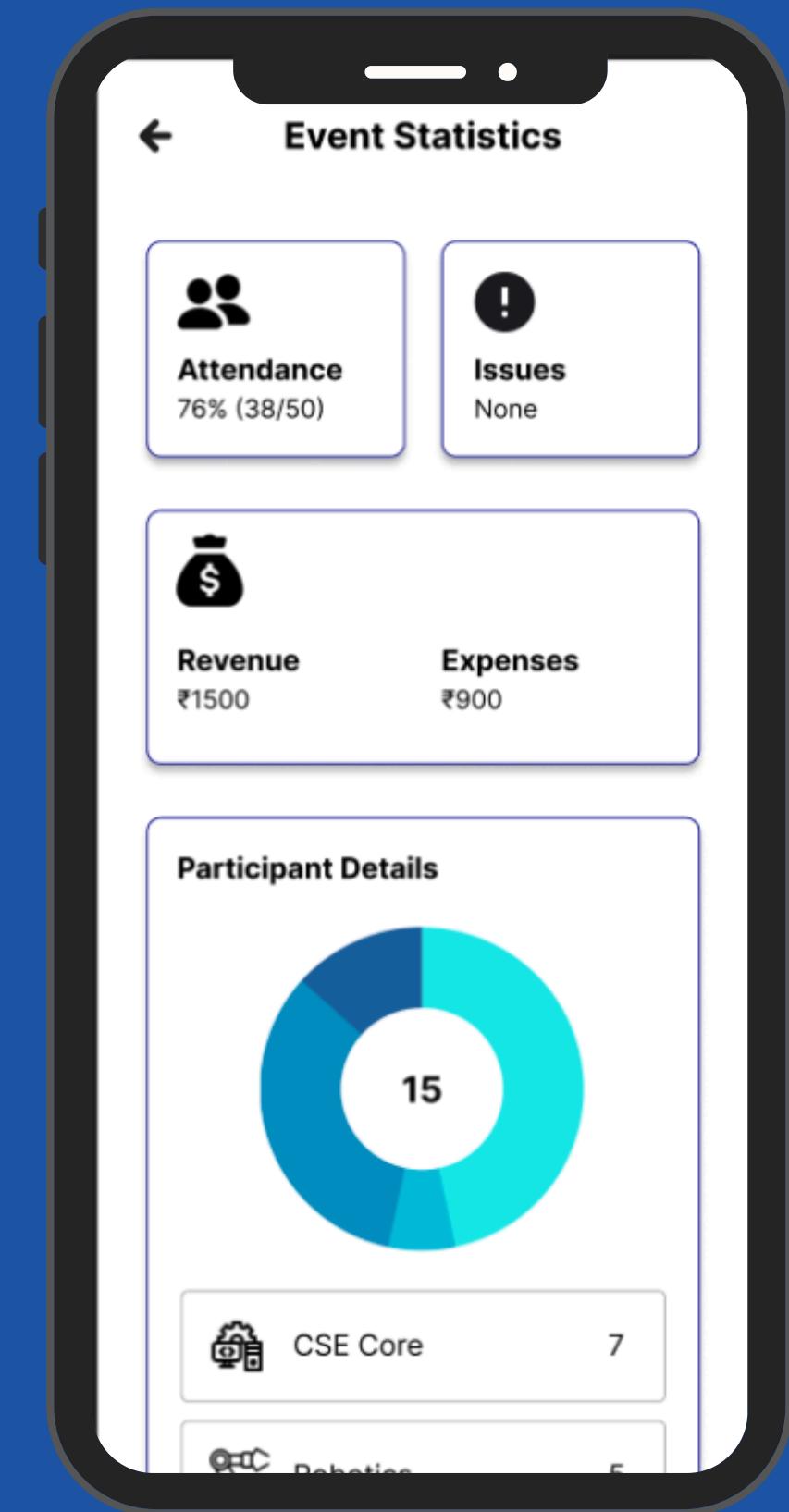
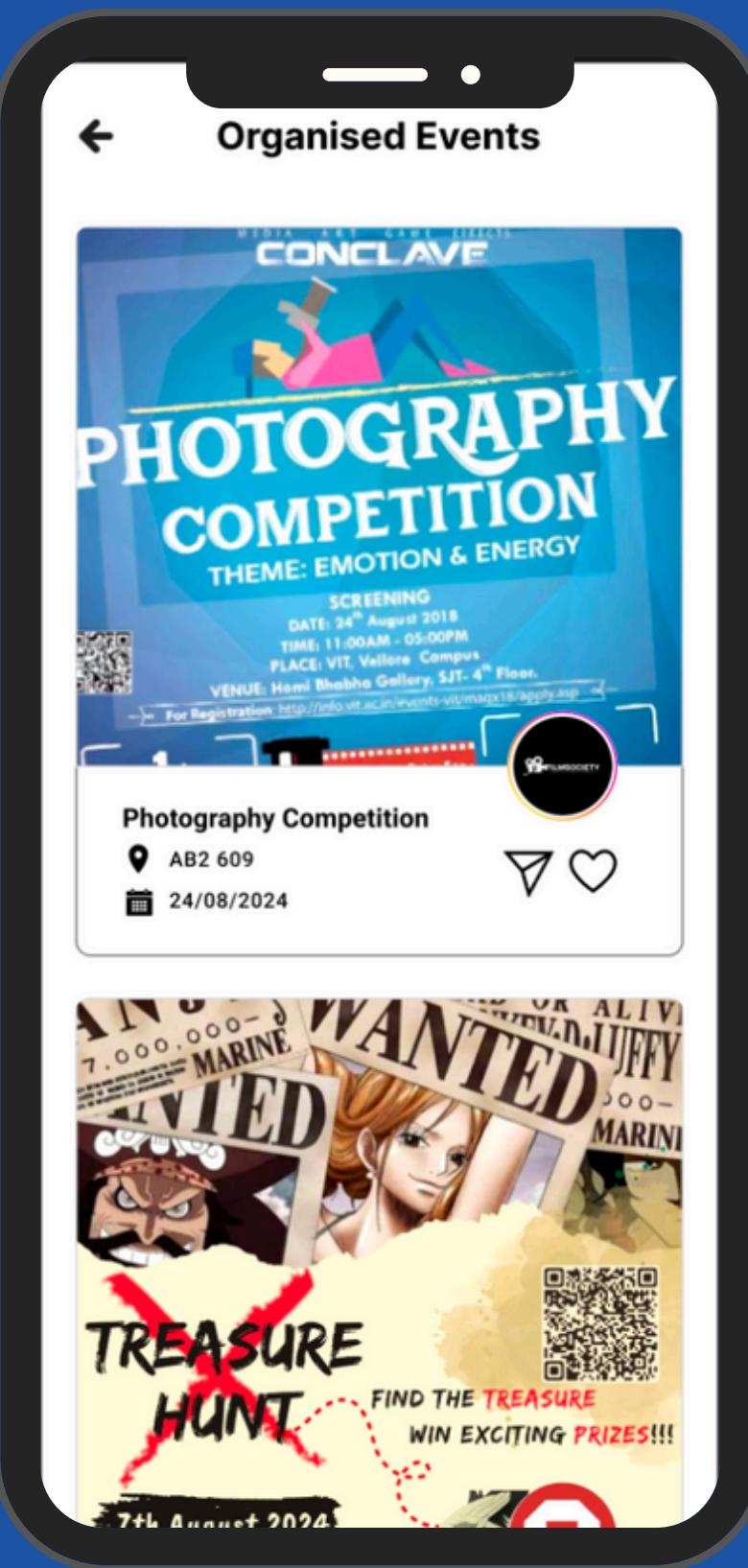
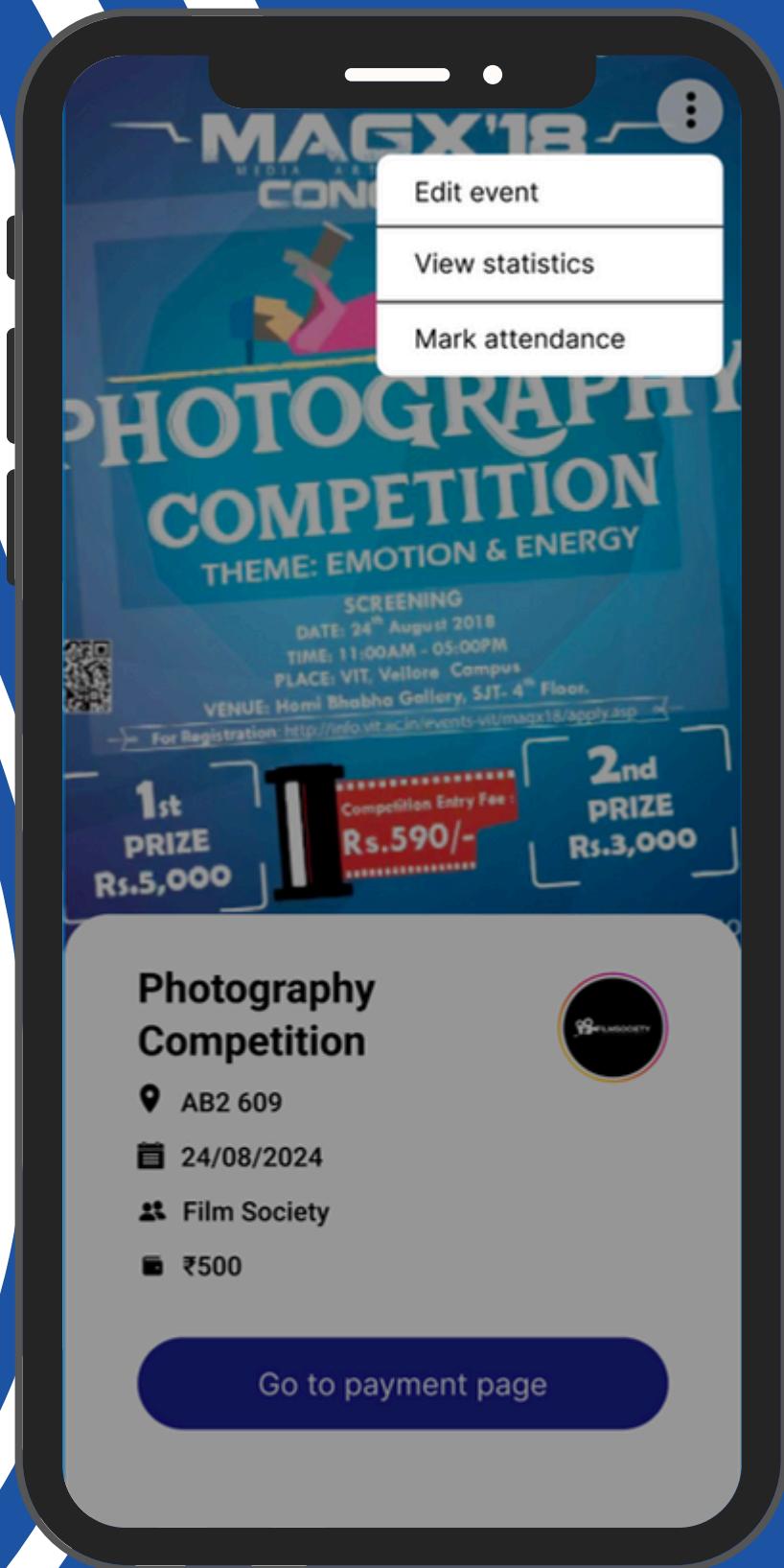
Club Member Side



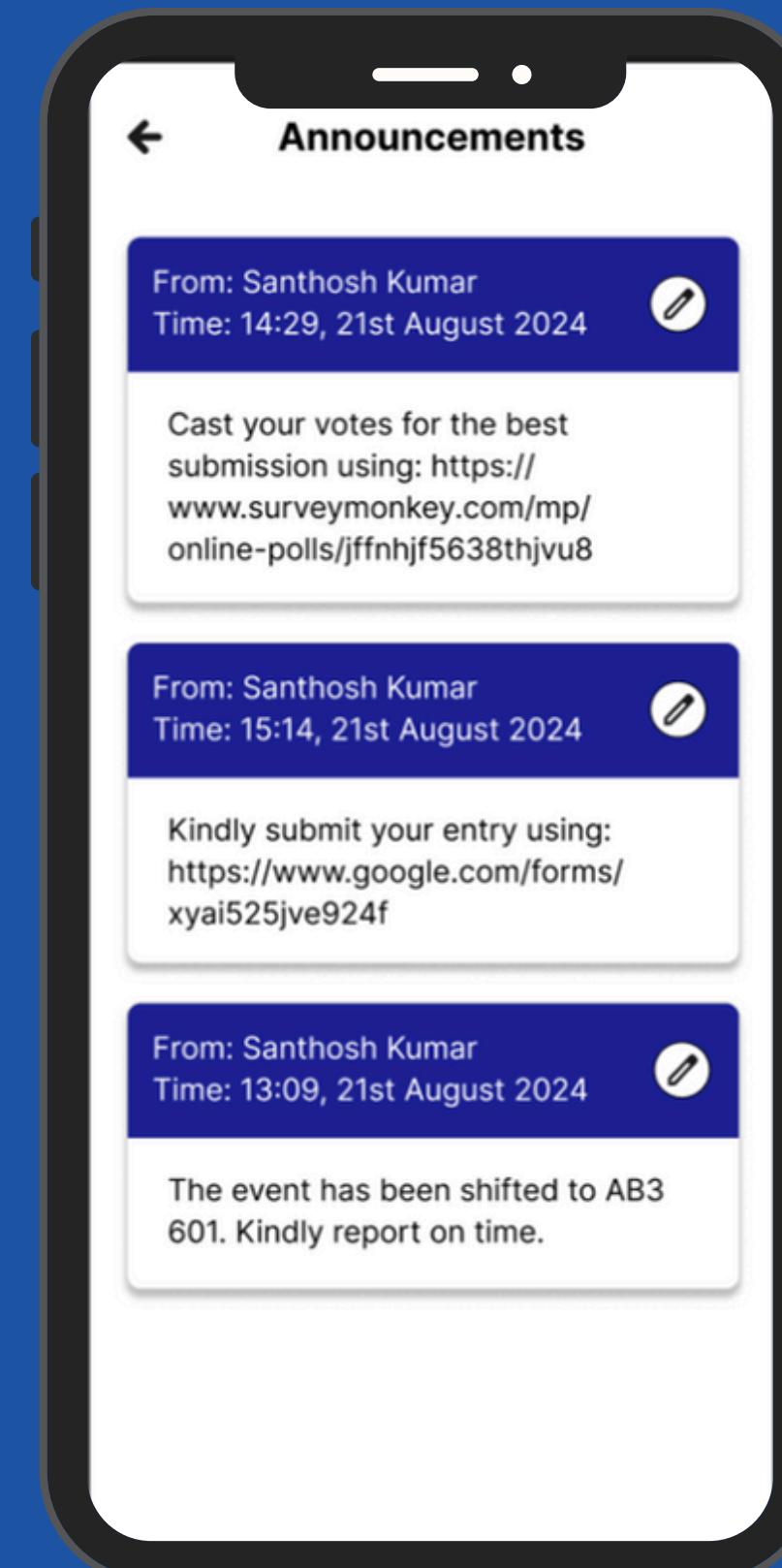
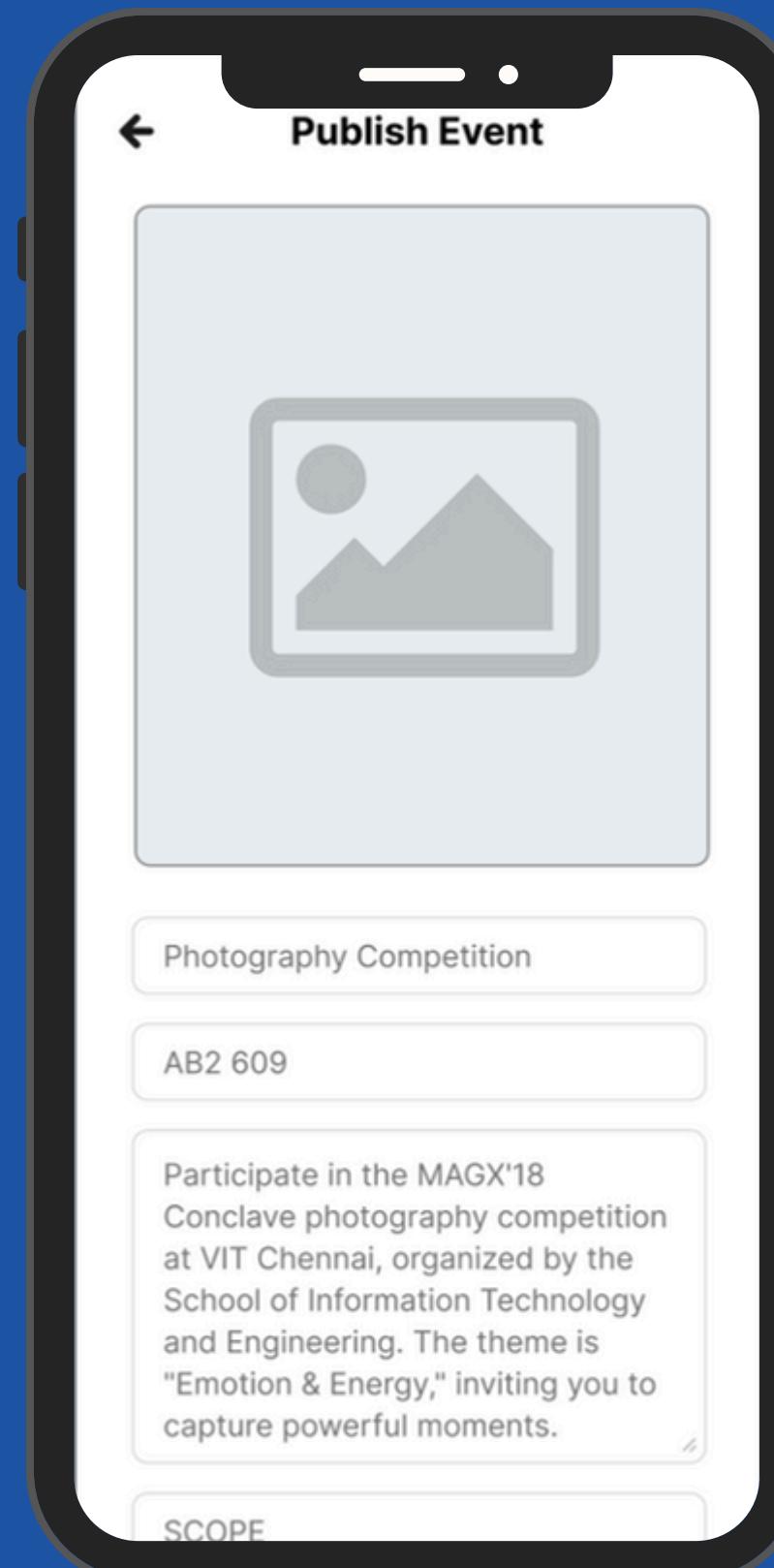
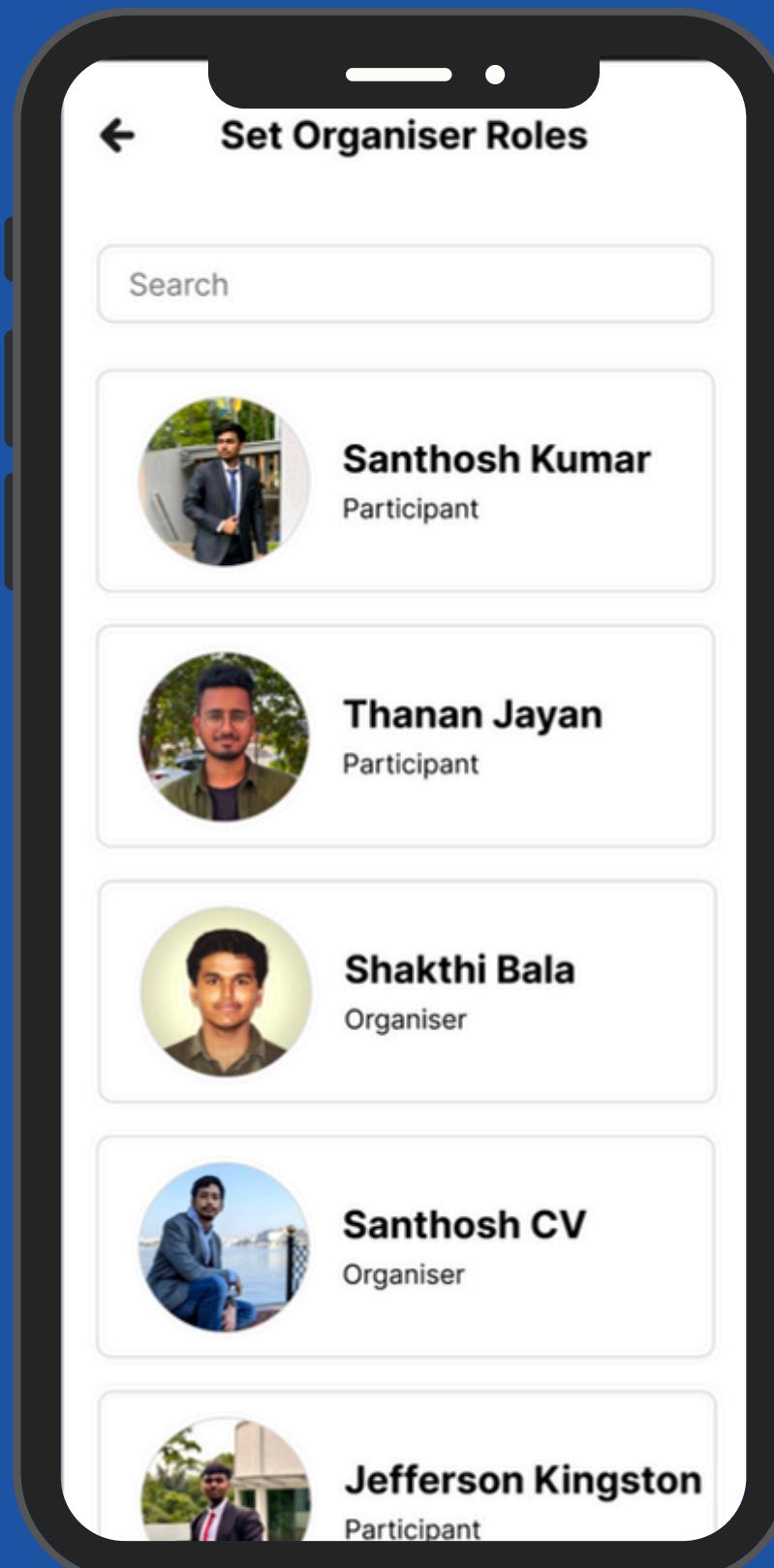
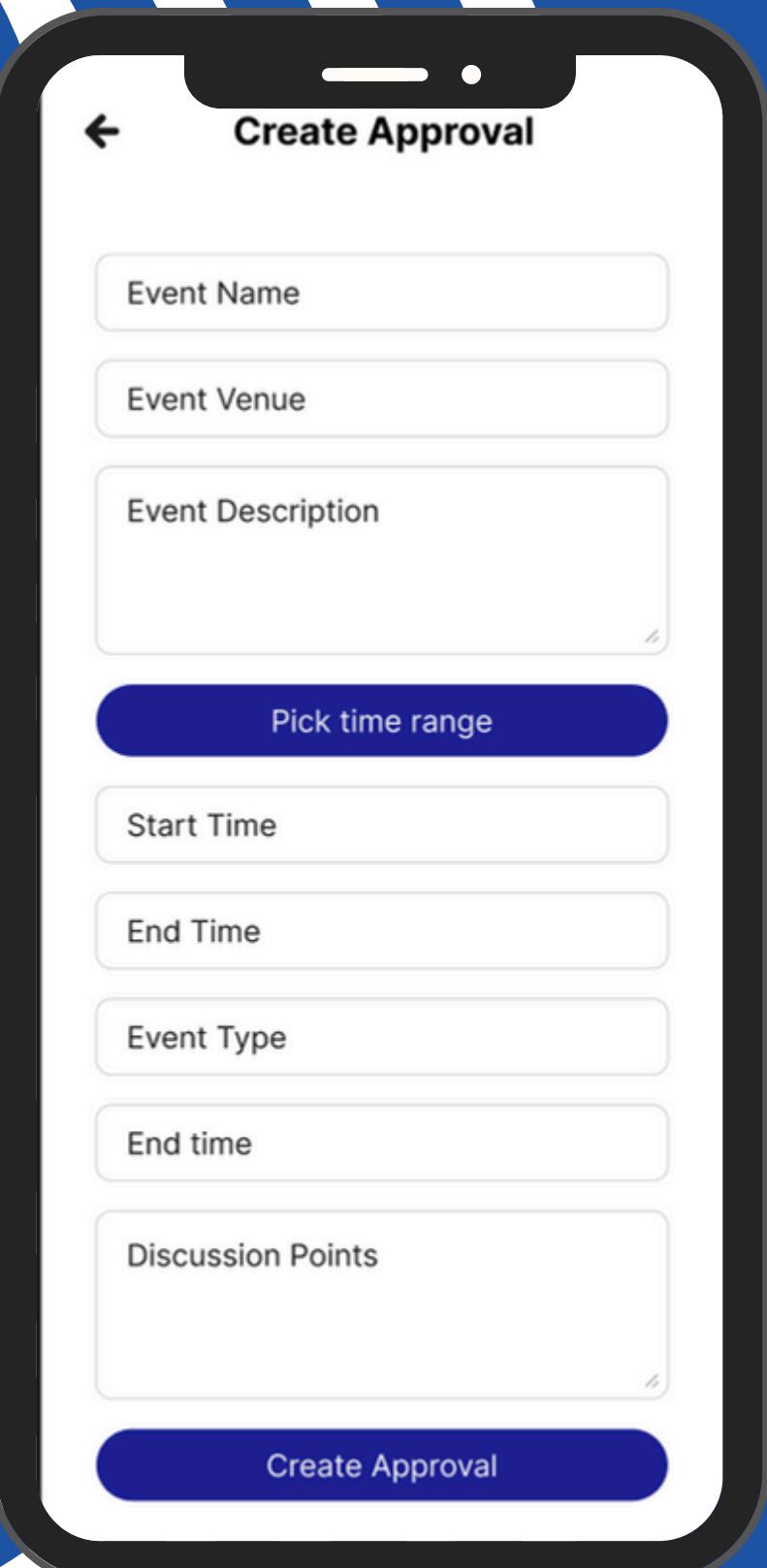
Expenses Tracking



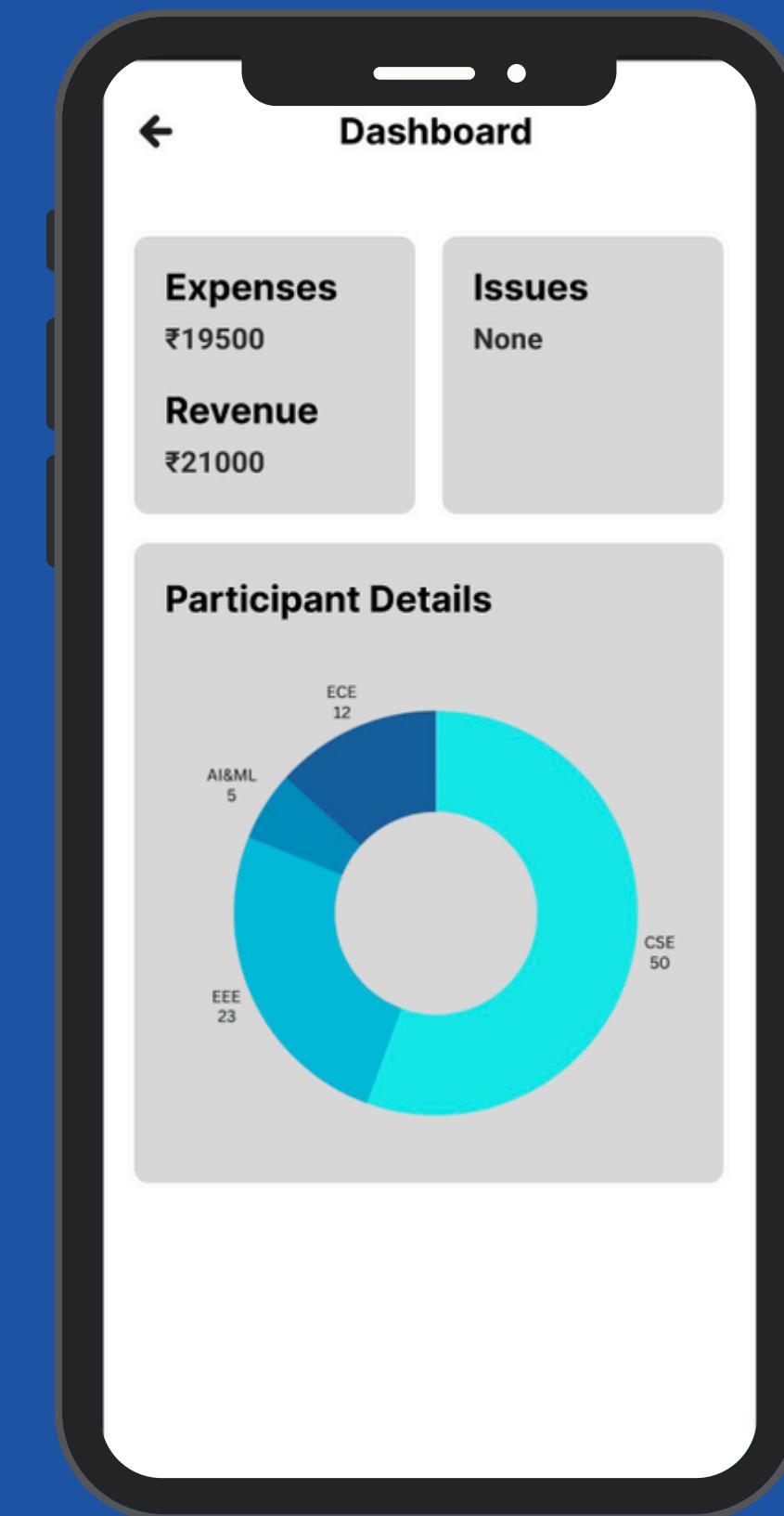
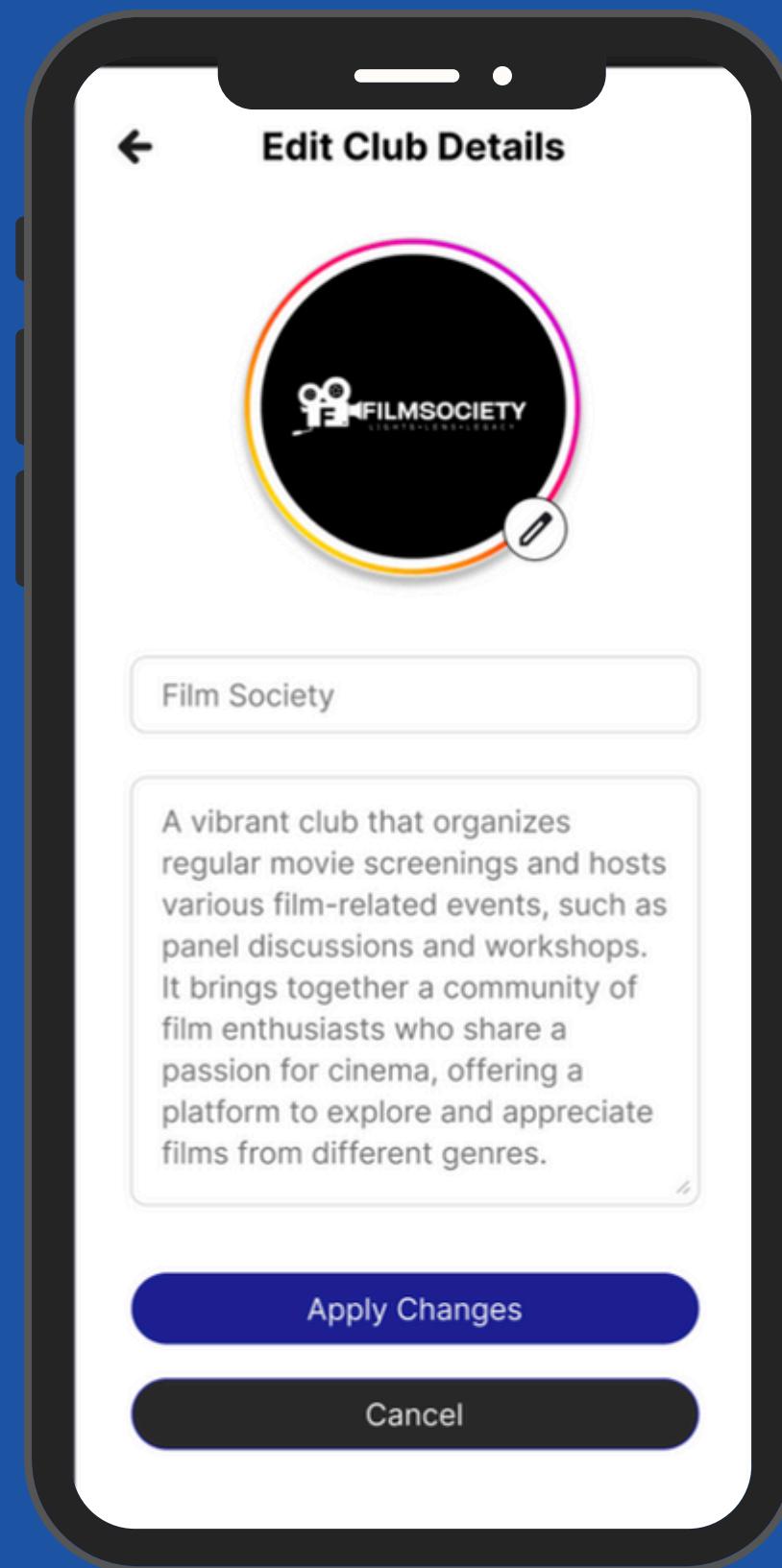
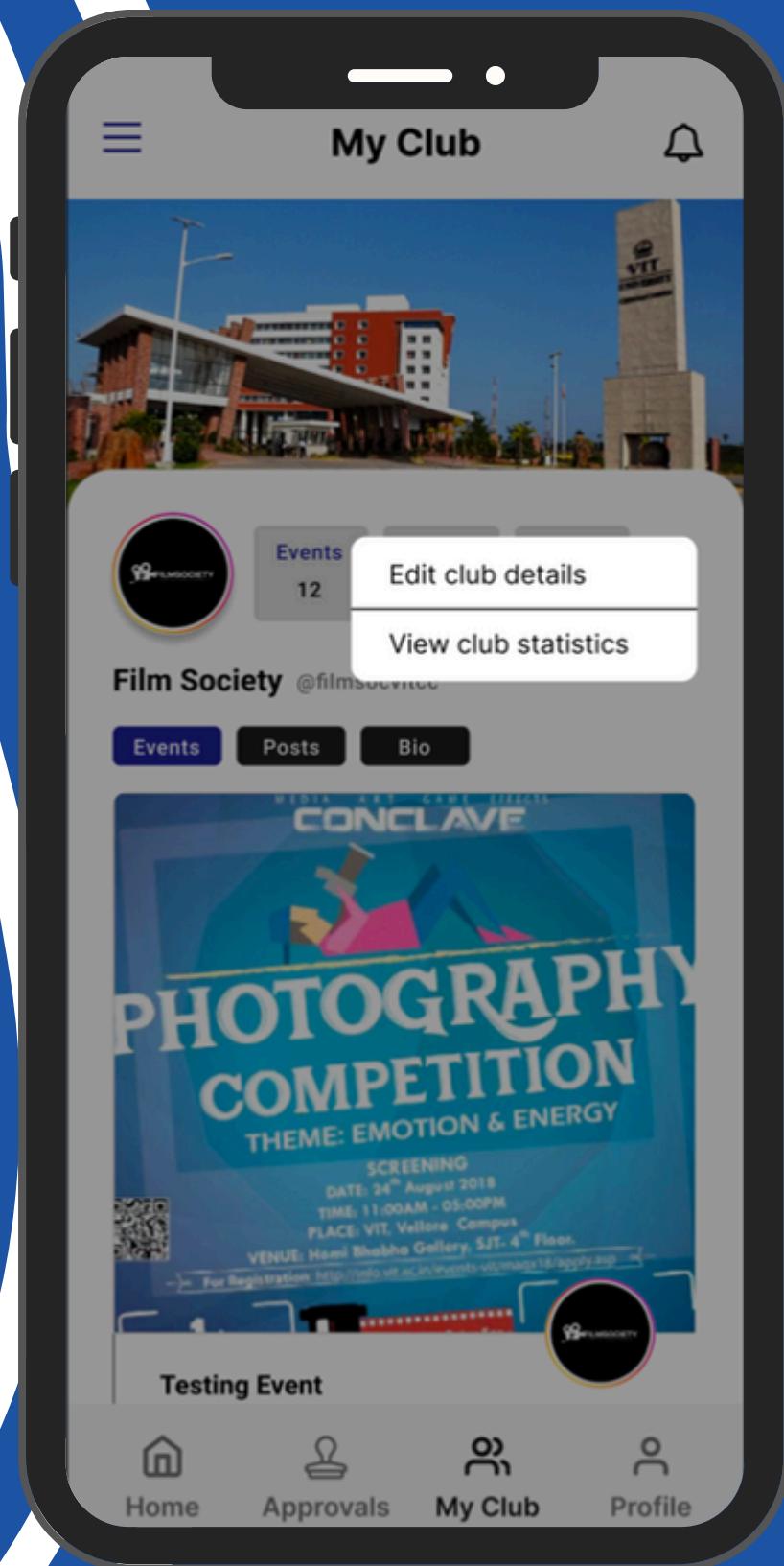
Organizer Side



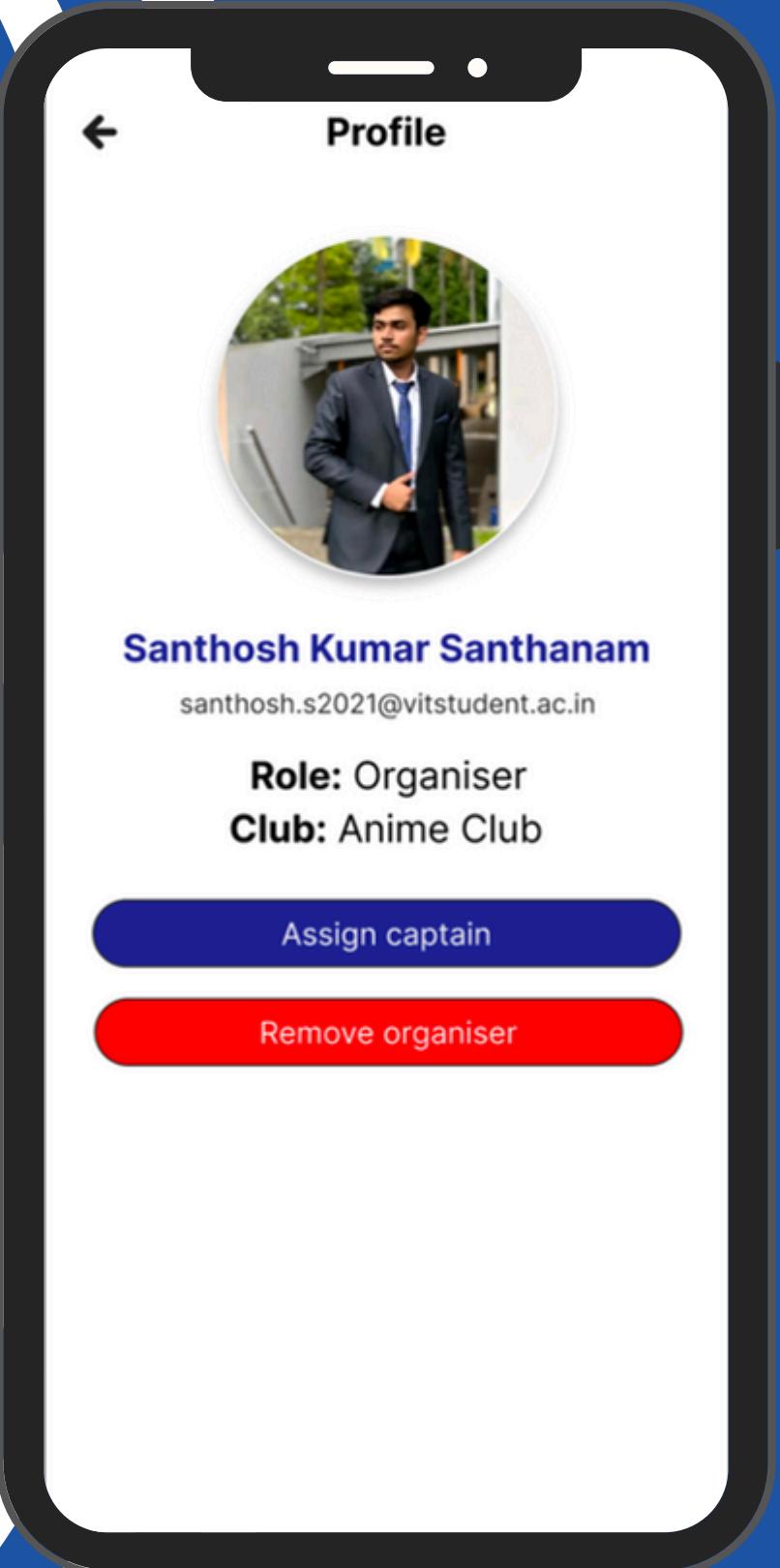
Captain Side



Captain Side



Approver Side



Profile

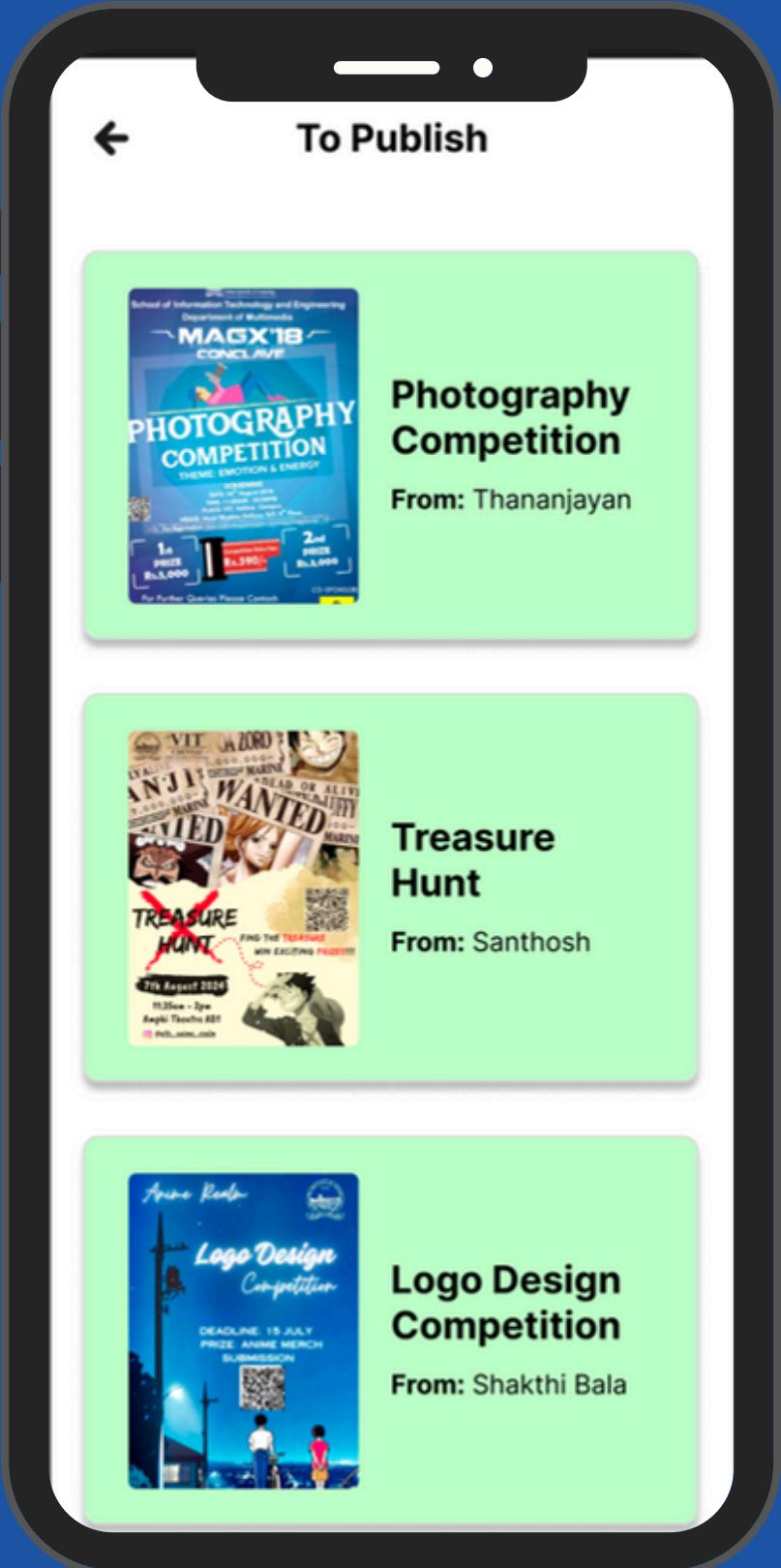


Santhosh Kumar Santhanam
santhosh.s2021@vitstudent.ac.in

Role: Organiser
Club: Anime Club

Assign captain

Remove organiser

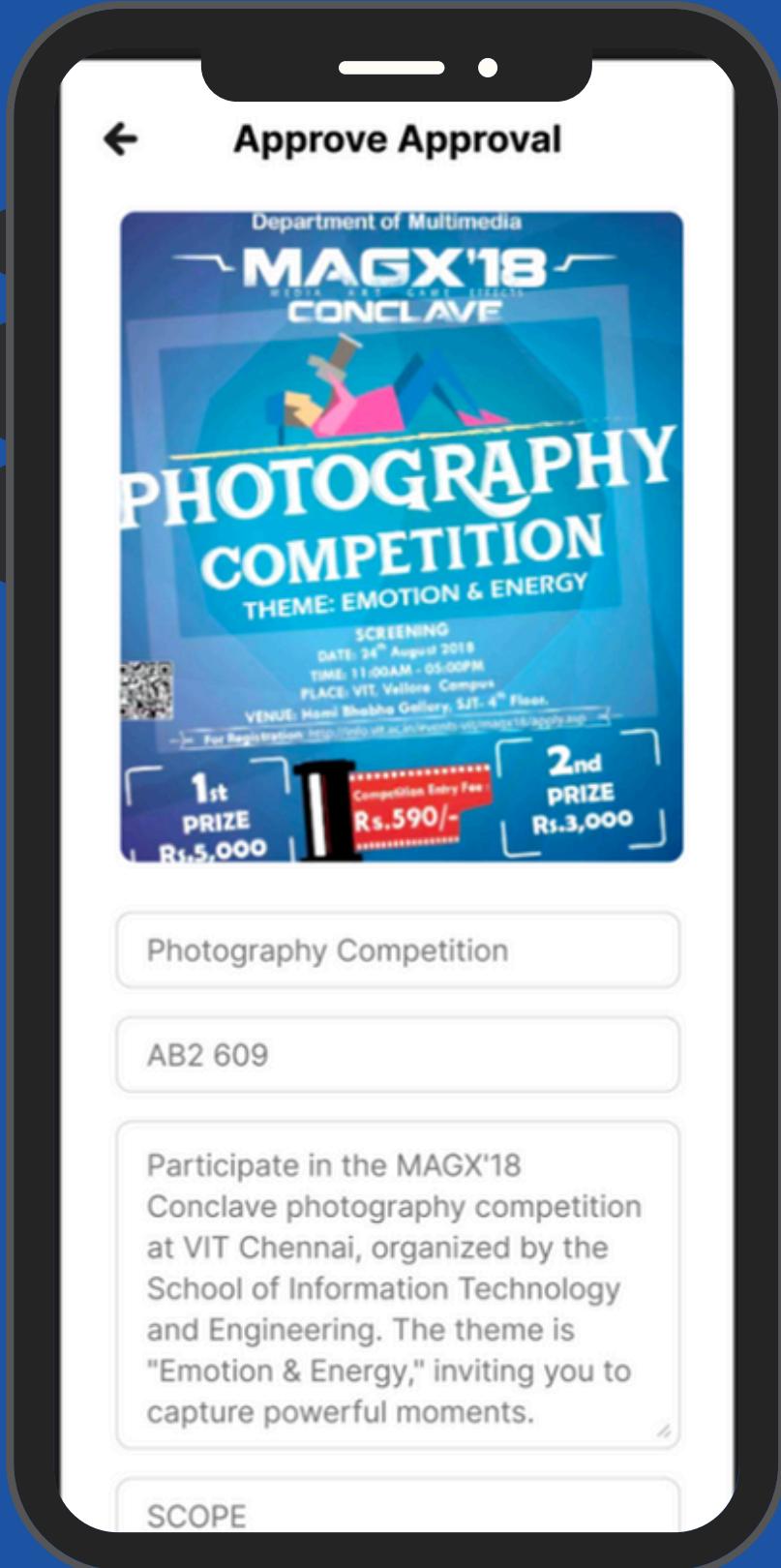


To Publish

**Photography Competition**
From: Thananjayan

**Treasure Hunt**
From: Santhosh

**Logo Design Competition**
From: Shakthi Bala



Approve Approval

**PHOTOGRAPHY COMPETITION**
THEME: EMOTION & ENERGY

SCREENING
DATE: 24th August 2018
TIME: 11:00AM - 05:00PM
PLACE: VIT, Vellore Campus
VENUE: Hem Bhabha Gallery, SJT- 4th Floor.

1st PRIZE Rs.5,000 | **Competition Entry Fee** Rs.590/- | **2nd PRIZE** Rs.3,000

Photography Competition

AB2 609

Participate in the MAGX'18 Conclave photography competition at VIT Chennai, organized by the School of Information Technology and Engineering. The theme is "Emotion & Energy," inviting you to capture powerful moments.

SCOPE



Future Works



Collect User Feedback on Specific Events

Gather and analyze user issues and suggestions related to individual events.

Develop Offline and Online Capabilities

Create a semi-offline app experience that functions effectively both online and without internet connectivity.

Implement Notifications

Integrate notifications to keep users informed about relevant updates and activities.

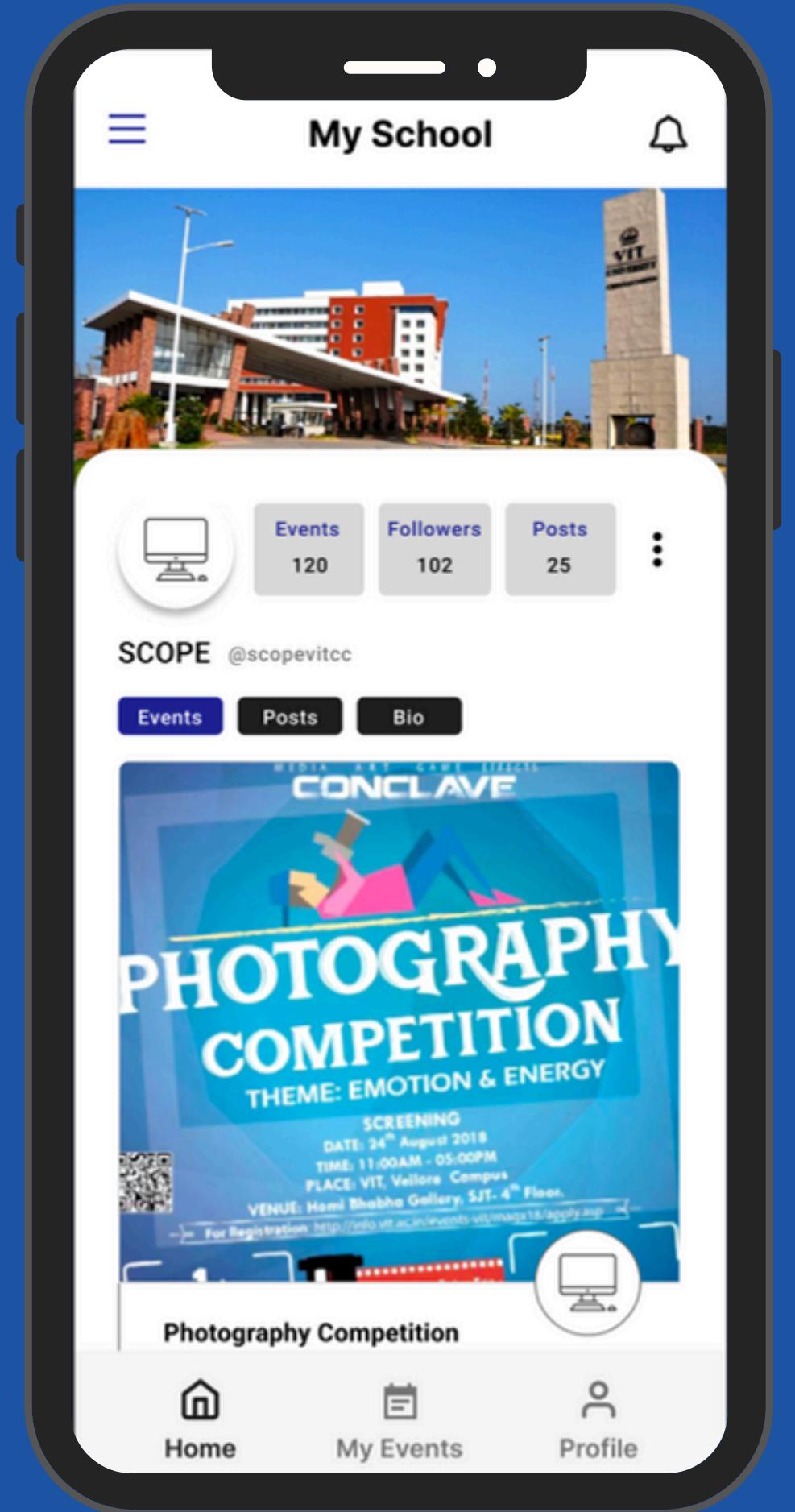
Share User and Event/Club Profile through links

Facilitate sharing of user profiles and event/club details through shareable links.

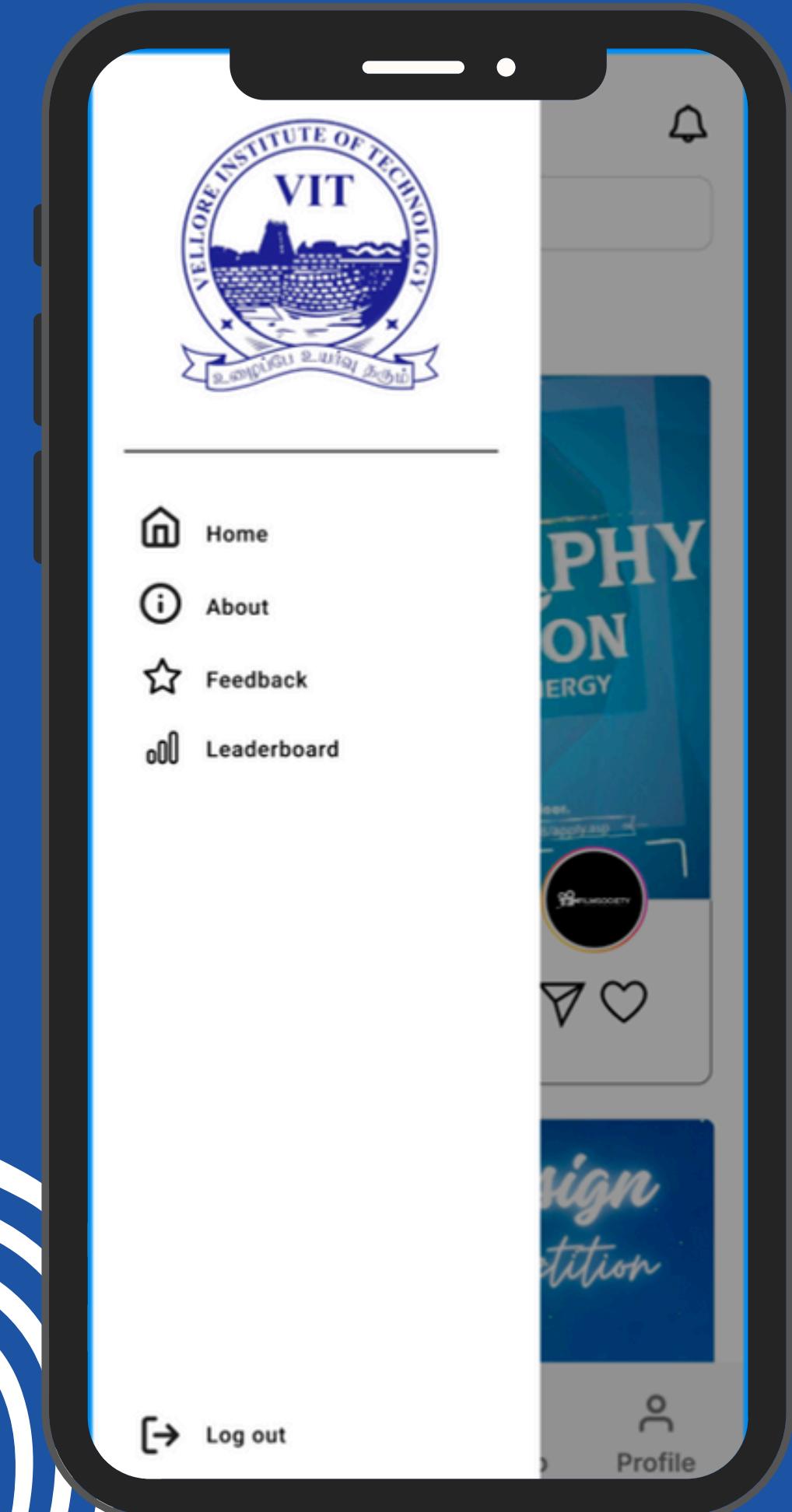


Scaling App to Schools

- **Expansion to Schools and Faculties:** The current app, which is designed for clubs and students, can be extended to schools and faculties.
- **Analogous Roles:**
 - In this expanded version, the dean's role could be analogous to the faculty's current role.
 - The faculty's role could be analogous to the students' current role.
- **Enhanced Utility:** This expansion would improve the app's utility by supporting communication, event management, and collaboration in a broader range of educational settings.



User Feedback & Iteration





That's the best We can Do

-The Developer Team