

ABSTRACT

The *Campus Social Hub* is a dedicated mobile application developed to enhance student engagement and streamline communication within a college campus. Designed as a hybrid of social media and academic forums, the application draws inspiration from platforms like Reddit but narrows its focus to the specific needs and interests of college communities. It provides a centralized space for students to participate in vibrant discussion threads, share academic resources, promote and discover campus events, and interact with peers and organizations.

The platform supports key functionalities such as post creation, upvoting/downvoting, commenting, tagging, and category-based filtering, allowing users to engage in meaningful conversations on topics ranging from academics and campus news to club activities and social events. Clubs and societies can create official profiles to share updates and recruit members, while faculty members are given limited, role-specific access to moderate academic discussions or post official announcements.

By encouraging real-time interaction, peer support, and information exchange, *Campus Social Hub* fosters a sense of community and collaboration beyond the classroom. The application aims to address the gap in digital student networking within educational institutions by offering an intuitive, campus-focused platform that supports both academic and extracurricular involvement.

Key Features of the application include:

- **Thread-based Discussions:** Users can create and join topic-specific threads, enabling peer-to-peer learning, debates, and social interactions.
- **Event Promotion and Discovery:** Clubs and student bodies can create posts to promote events, workshops, fests, and other activities, helping students stay informed about happenings across campus.
- **Upvote/Downvote Mechanism:** Encourages quality content by letting the community decide what's most relevant or helpful.
- **Commenting and Replies:** Promotes interaction and feedback, enhancing collaboration and peer support.
- **Club & Society Accounts:** Recognized student organizations can maintain official profiles to share announcements, recruit members, and engage with the campus community.
- **Faculty Access (Limited):** Faculty members can monitor academic discussions or post formal updates, without interfering in informal student exchanges.
- **Anonymous Posting Option:** Supports candid discussions on sensitive or personal issues while maintaining user privacy and moderation protocols.

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CHAPTER 1

"Campus Social Hub"

The Campus Social Hub is a dynamic mobile application designed to connect college students through discussion threads, event posts, and academic exchanges — similar to the concept of Reddit but focused on campus-specific interests. It fosters a digital community within a college environment where users can post, upvote, comment, and interact on various student-led forums and events.

Target Users:

- College Students
- Faculty Members (Limited Access)
- Clubs and Societies

1.1 Functionalities under Login and Sign-Up Pages

Sign-Up Page:

- New users register with college email verification.
- Select role: Student, Club Admin, or Faculty.
- Optional: Add department and batch year for personalized feed.

Login Page:

- Authenticates users via college email & password.
- Directs to the Home Feed after successful login.

1.2 Home Feed (Reddit-style)

- Trending Posts: Popular discussions across campus.
- Subscribed Communities: Student joins clubs or departments like 'Tech Club', 'BMSCE CSE 2025'.
- New Posts: Chronological list of all new threads.
- Each post supports Upvote/Downvote, Comment, Share, and Report actions.

1.3 Communities Page

- Browse or search student groups, clubs, departments, or interest-based communities.
- Join/Leave buttons for each community.
- Community home shows: Description, Admin details, Upcoming events, Popular posts

1.4 Post Creation Page

- Create posts with: Title, Description, Tags, Optional Image/PDF
- Set visibility: Public, Department Only, Community Only
- Option to schedule posts (for clubs or admin)

1.5 Events & Announcements

- Separate section for Campus Events (club fests, guest lectures, competitions)
- RSVP to events, add to calendar
- Clubs can post announcements visible to their followers

1.6 Profile Page

- View/Edit user details (Name, Email, Bio, Department)
- Shows: Karma Points, My Posts, My Comments, Communities Joined
- Settings: Notification Preferences, Dark Mode, Account Deletion / Logout

1.7 Moderation Features (for Admins)

- Community admins can: Pin posts, Remove posts/users, Add/Remove members
- Flagged content reviewed by moderators

CHAPTER 2

Hardware and Software Requirements

2.1 Hardware Requirements

Component	Minimum Requirement	
Recommended Requirement		

Processor	Quad-core 1.3 GHz	Octa-core 2.0 GHz or higher
RAM	2 GB	4 GB or higher
Storage	200 MB free space	500 MB+
Display	5.0" 720p	5.5"+ 1080p Full HD
Connectivity	Internet access (WiFi/4G)	Stable internet for real-time use

2.2 Software Requirements

- Platform: Android (API Level 23+), iOS (optional)
- Framework: Flutter with Firebase backend
- Dependencies: Firebase Auth, Firestore, Cloud Storage, Provider/Bloc
- Dev Tools: Android Studio or VS Code

Optional (Developer Use Only)

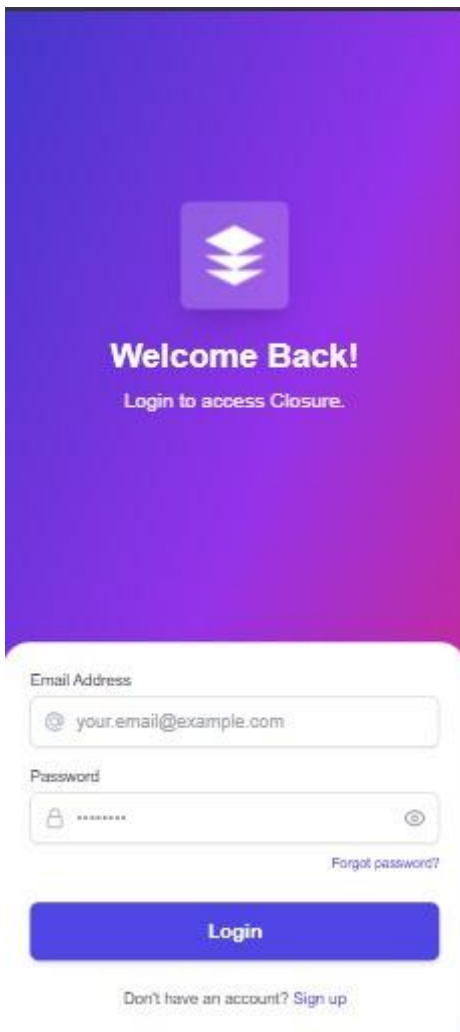
If you plan to **modify or develop** the app further, here's what you'll need:

Development Tools:

- **Flutter SDK** (latest stable version)
- **Dart SDK** (bundled with Flutter)
- **IDE**: Android Studio, Visual Studio Code, or IntelliJ IDEA
- **Android Emulator or iOS Simulator** for testing (or physical device)

CHAPTER 3

Design Layouts: Screen Shots of Mobile App



Mobile app login screen with a purple-to-pink gradient background. At the top is a logo consisting of three stacked white chevrons inside a purple square. Below the logo, the text "Welcome Back!" is displayed in bold white, followed by "Login to access Closure." in smaller white text. The login form is a white rounded rectangle at the bottom, containing an "Email Address" field with an email icon and the text "your.email@example.com", a "Password" field with a lock icon and masked characters "*****", and a "Forgot password?" link. A blue "Login" button is at the bottom of the form, and a link "Don't have an account? Sign up" is below it.

Welcome Back!
Login to access Closure.

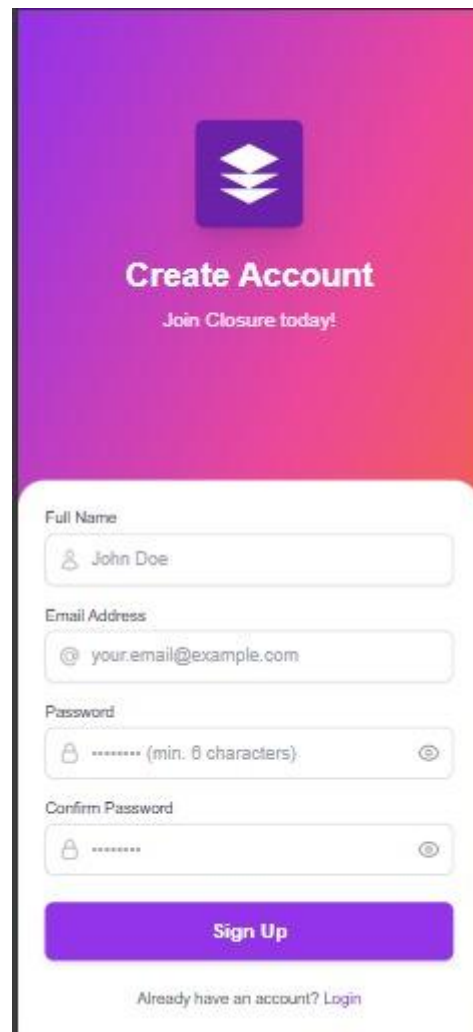
Email Address
your.email@example.com

Password

[Forgot password?](#)

Login

[Don't have an account? Sign up](#)



Mobile app registration screen with a purple-to-pink gradient background. At the top is the same logo as the login screen. Below the logo, the text "Create Account" is displayed in bold white, followed by "Join Closure today!" in smaller white text. The registration form is a white rounded rectangle at the bottom, containing a "Full Name" field with a person icon and the text "John Doe", an "Email Address" field with an email icon and the text "your.email@example.com", a "Password" field with a lock icon, masked characters "*****", and the text "(min. 6 characters)", and a "Confirm Password" field with a lock icon and masked characters "*****". A blue "Sign Up" button is at the bottom of the form, and a link "Already have an account? Login" is below it.

Create Account
Join Closure today!

Full Name
John Doe

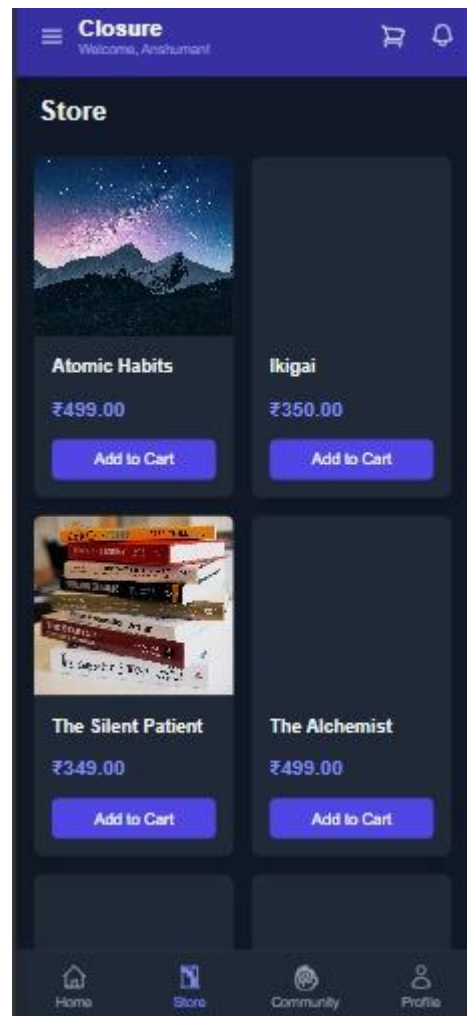
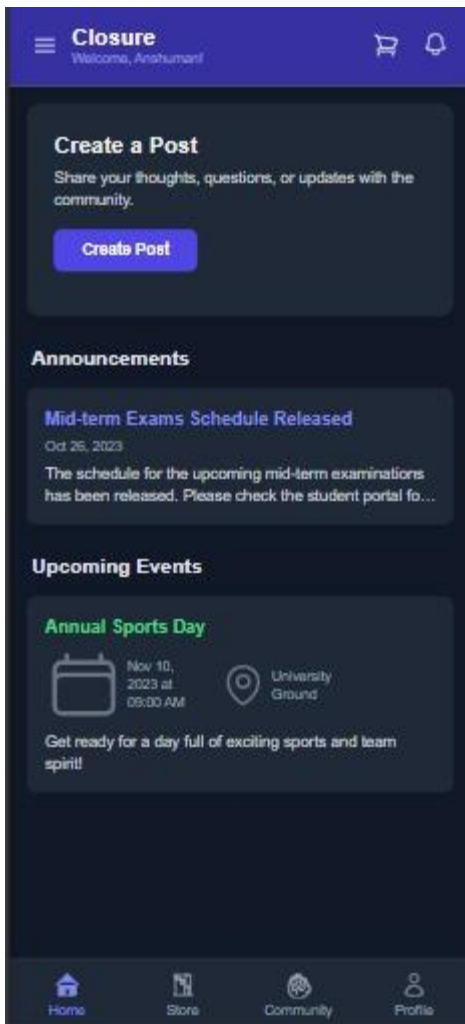
Email Address
your.email@example.com

Password
***** (min. 6 characters)

Confirm Password

Sign Up

[Already have an account? Login](#)



← Checkout Details

Delivery Address

Full Name*

Ali

Mobile Number*

07457082181

Pincode*

560050

Address (House No, Building, Street, Area)*

Room No. 302 NBH 10 BMSETH

City/District/Town*

Bangalore

State*

Karnataka

☒ Save this address for future orders

Order Summary

Atomic Habits (x1)

₹499.00

Ikigai (x1)

₹350.00

The Alchemist (x1)

₹499.00

Proceed to Pay ₹1348.00

← Checkout Details

Address (House No, Building, Street, Area)*

Room No. 302 NBH 10 BMSETH

City/District/Town*

Bangalore

State*

Karnataka

☒ Save this address for future orders

Order Summary

Atomic Habits (x1)

₹499.00

Ikigai (x1)

₹350.00

The Alchemist (x1)

₹499.00

Total

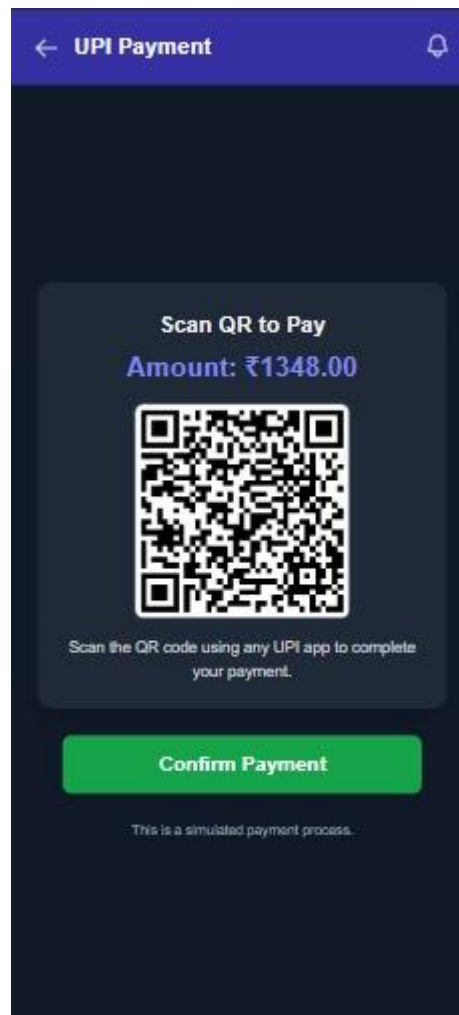
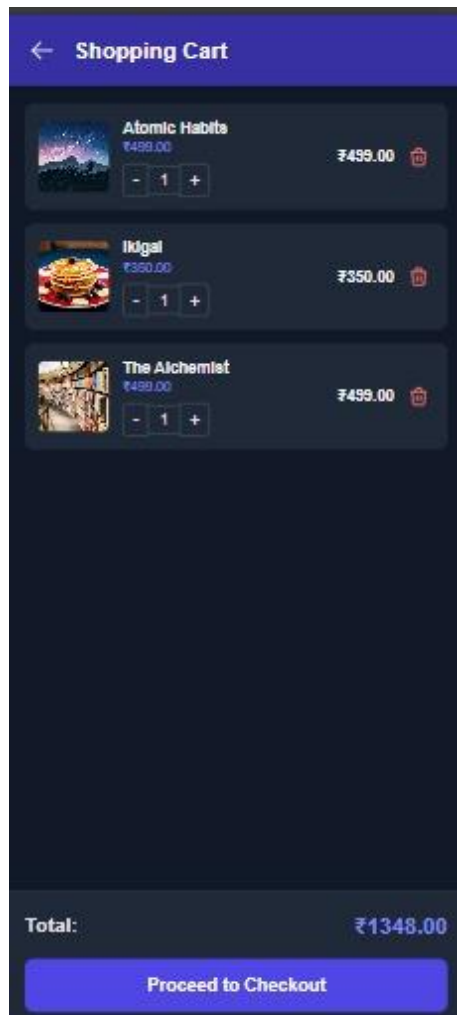
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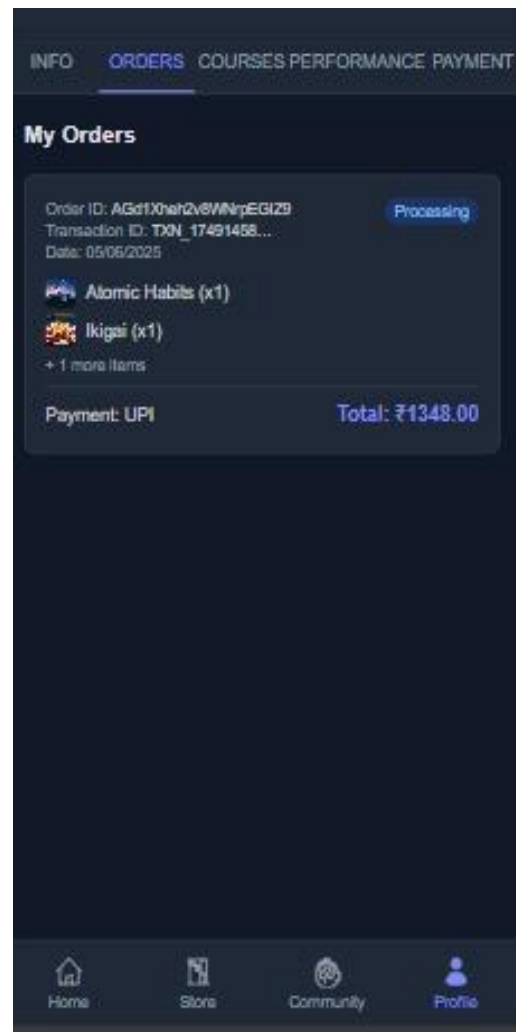
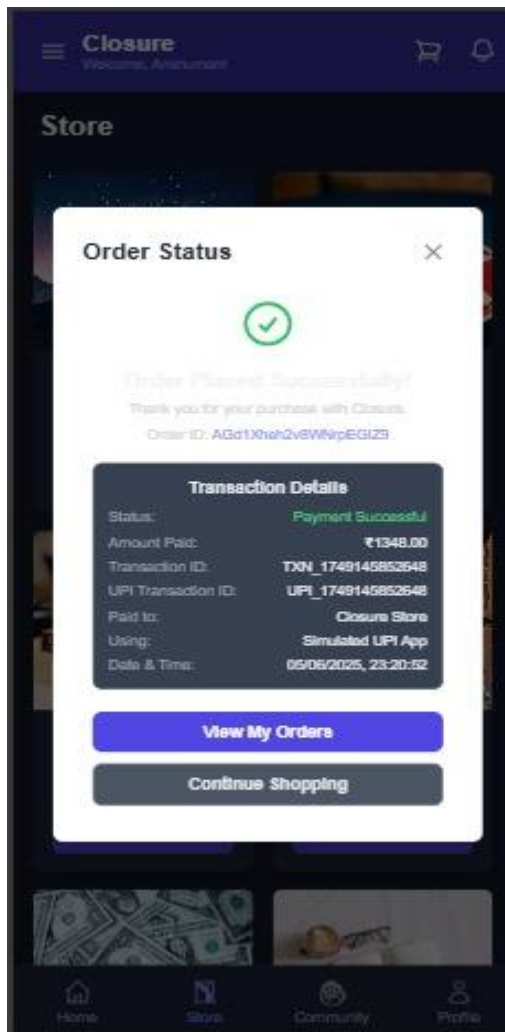
Payment Method

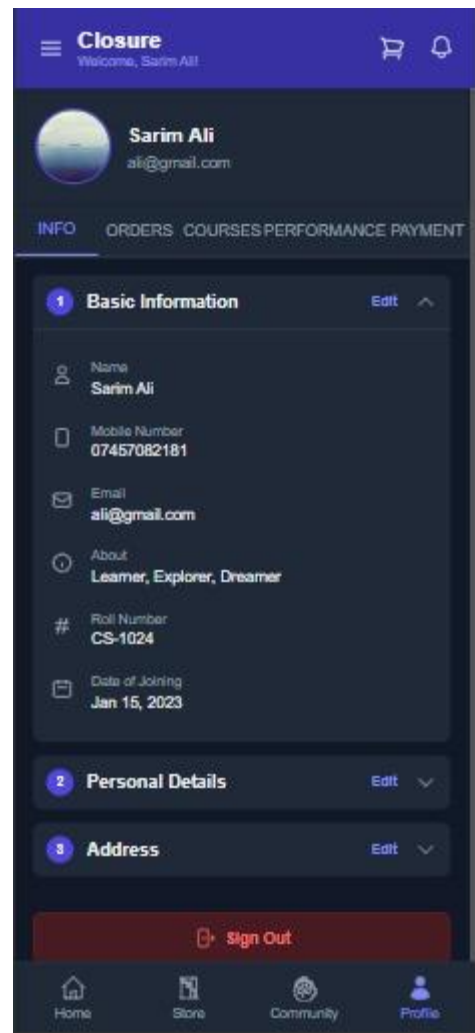
☒ UPI (Pay via QR Code)

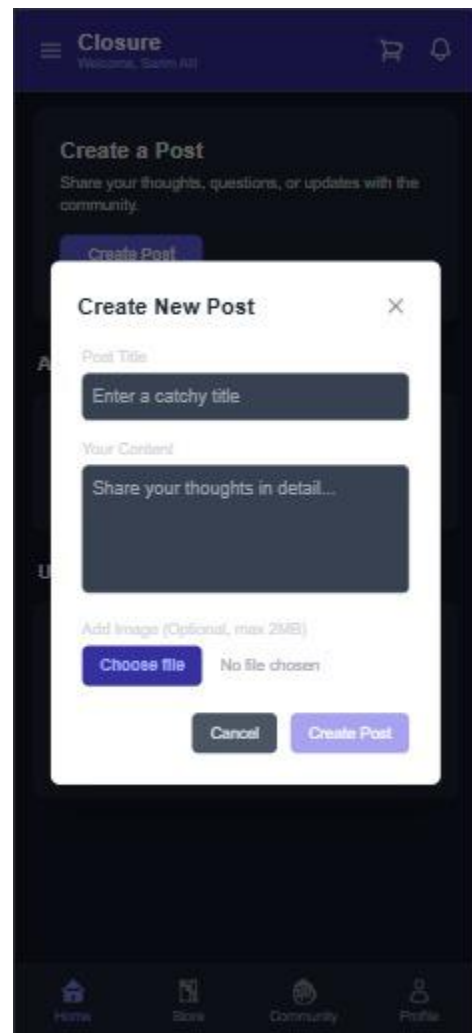
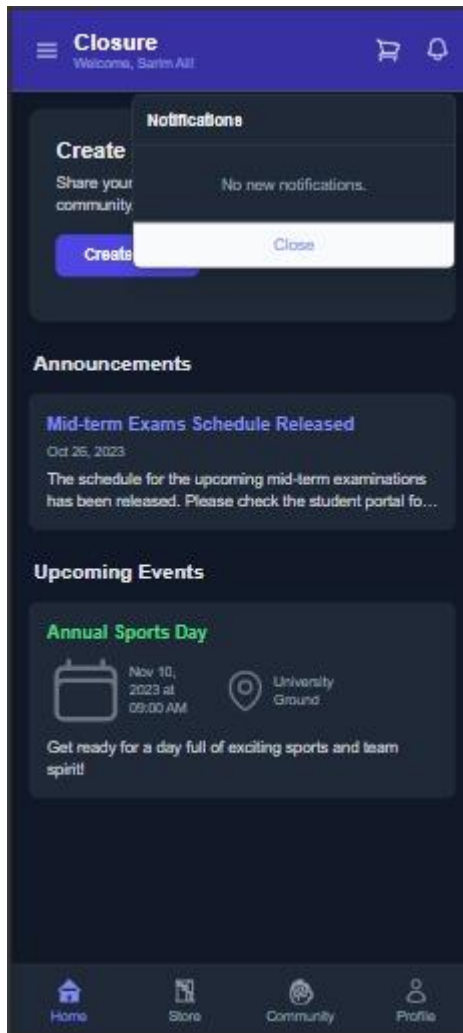
☐ Credit/Debit Card (Coming Soon)

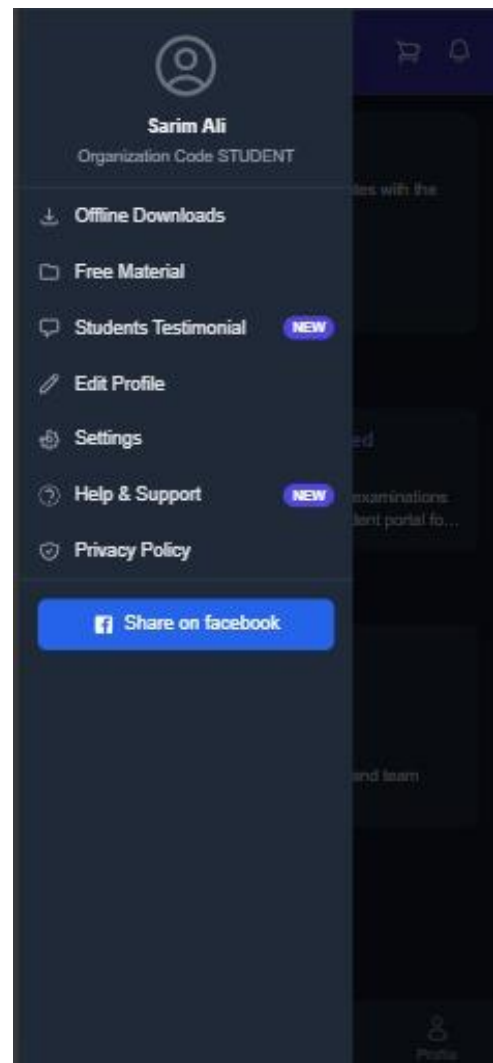
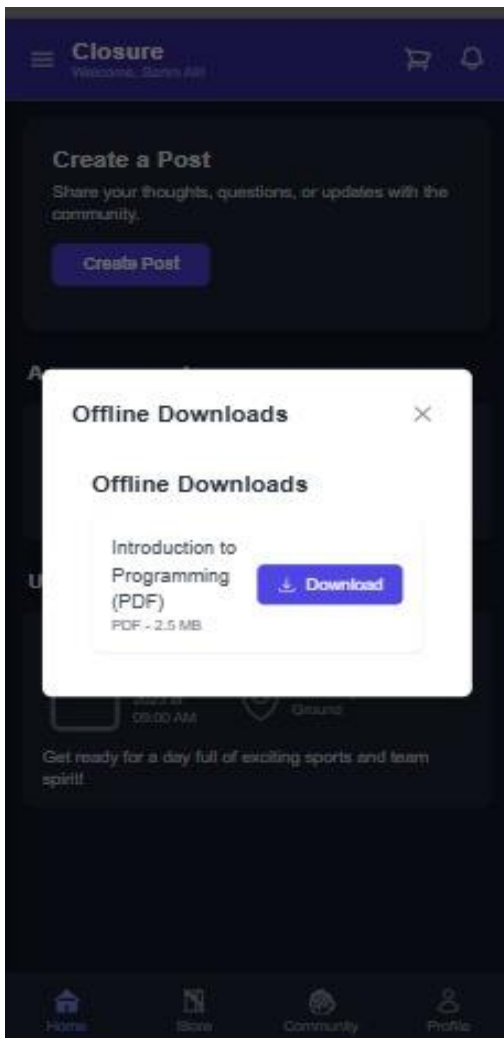
Proceed to Pay ₹1348.00

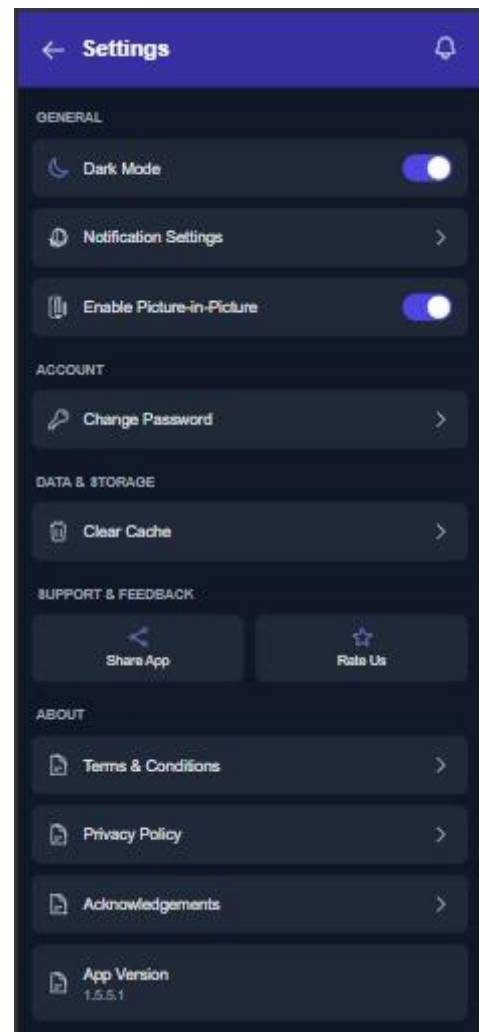
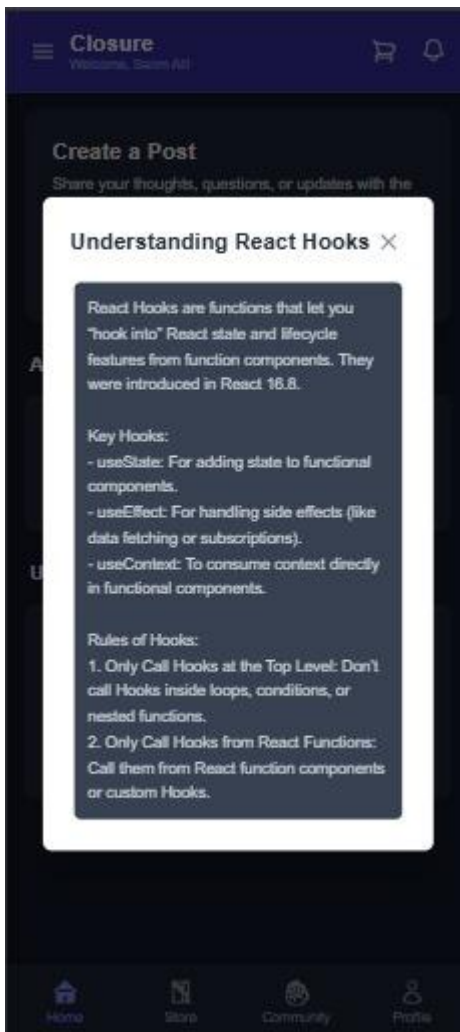


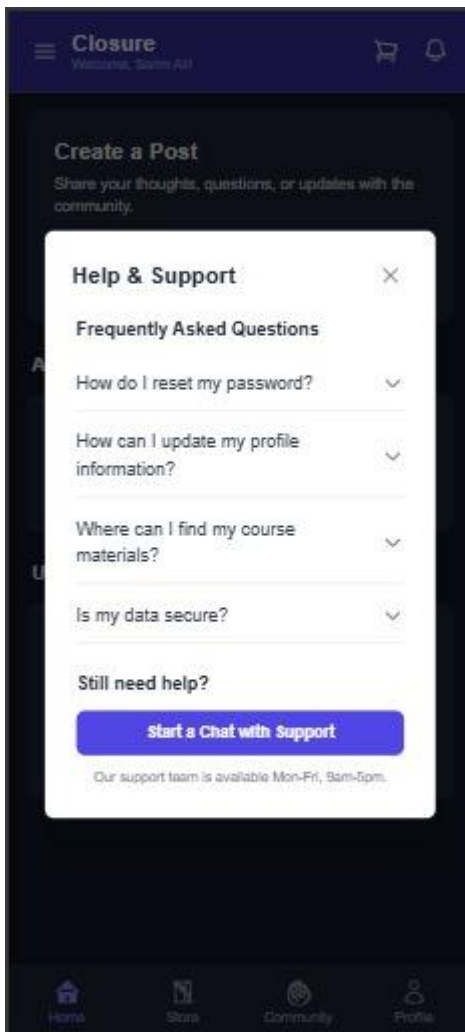








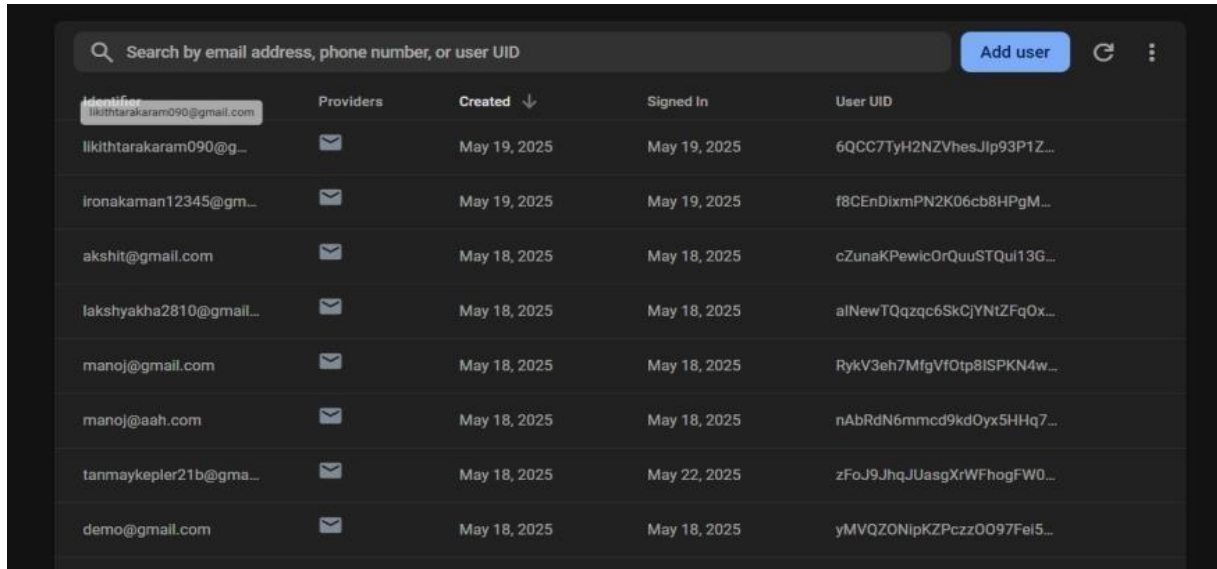




CHAPTER 4

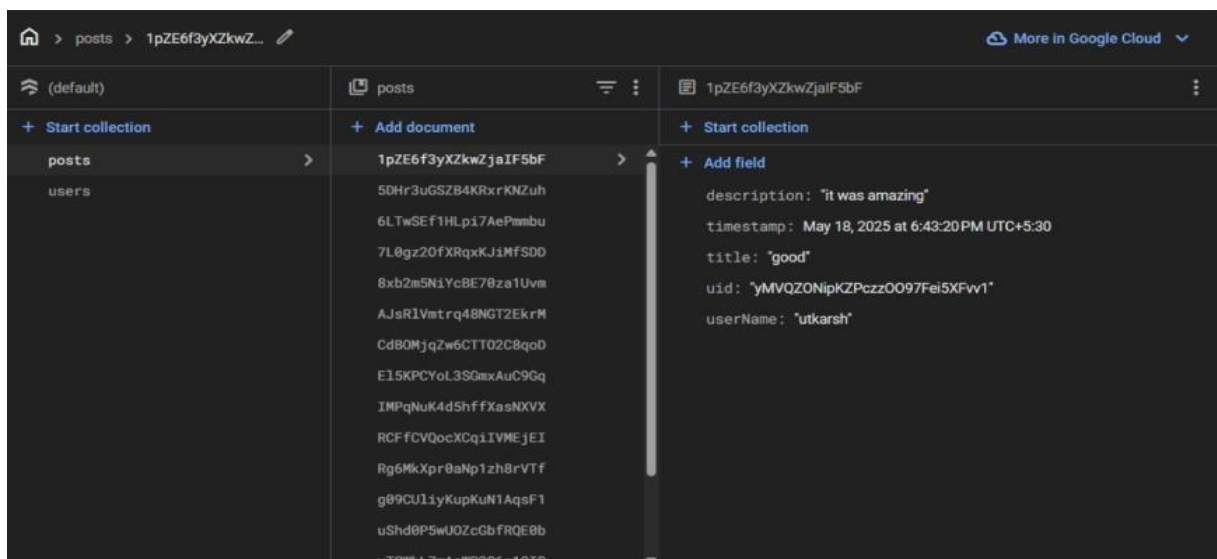
Database Table Screen shots

3.1.1. User authentication database:



Identifier	Providers	Created	Signed In	User UID
likitharakaram090@gmail.com				
likitharakaram090@g...		May 19, 2025	May 19, 2025	6QCC7TyH2NZVhesJlp93P1Z...
ironakaman12345@gm...		May 19, 2025	May 19, 2025	f8CEndixmPN2K06cb8HPgM...
akshit@gmail.com		May 18, 2025	May 18, 2025	cZunaKPewicOrQuuSTQui13G...
lakshyakha2810@gmail...		May 18, 2025	May 18, 2025	aiNewTQzqc6SkCjYNTZFqOx...
manoj@gmail.com		May 18, 2025	May 18, 2025	RykV3eh7MfgVfOtp8ISPKN4w...
manoj@aah.com		May 18, 2025	May 18, 2025	nAbRdN6mmcd9kdOyx5HHq7...
tanmaykepler21b@gma...		May 18, 2025	May 22, 2025	zFoJ9JhqJUasgXrWFhogFW0...
demo@gmail.com		May 18, 2025	May 18, 2025	yMVQZONipKZPczz0O97Fei5...

3.2.1 Collections database:



(default)	posts	1pZE6f3yXZkwZjalF5bF
+ Start collection	+ Add document	+ Start collection
posts	1pZE6f3yXZkwZjalF5bF	+ Add field
users	50Hr3uGSZB4KRxrKNZuh 6LTwSEf1HLp17AePmbu 7L0gz20fXRqxKJiMFSD0 8xb2m5N1YcBE70za1Uvm AJsRlVmrq48NGT2EkrM Cd80MjqZw6CTT02C8qoD EI5KPCYoL3SGmxAuC9Gq IMPqNuK4dShffXasNXVX RCFFCVQocXCq1IVMEjEI Rg6MkXpr0aNP1zh8rVTf g09CU1iyKupKuN1AqsF1 uShd0P5wU0ZcGbfRQE8b vTCWbl7mAsW806e18T0	description: "it was amazing" timestamp: May 18, 2025 at 6:43:20 PM UTC+5:30 title: "good" uid: "yMVQZONipKZPczz0O97Fei5XFv1" userName: "utkarsh"

Chapter 5

Conclusion and Future Work

The **Campus Social Hub** is designed to evolve into a dynamic platform that not only connects students but also enhances their digital campus experience. One of the key future enhancements is **AI-generated post recommendations**, which will use machine learning to analyze user behavior, interests, and engagement patterns to suggest relevant posts and discussions. This personalization aims to boost student interaction and ensure that users always find content that resonates with them.

Another planned feature is the **anonymous post option**, allowing students to share sensitive opinions or questions without revealing their identity. While anonymity will be preserved publicly, the system will internally log user information for moderation purposes to prevent misuse. This feature encourages open dialogue and peer support.

The platform will also introduce **real-time chat and direct messaging**, enabling instant communication between users. This will support one-on-one and group chats, enhancing collaboration for projects, events, and casual conversation. Security and privacy will be ensured through end-to-end encryption and report/mute options.

To foster community contributions, a **badge system for top contributors** will be implemented. Users who actively post, comment, or support others will earn visible badges on their profiles, incentivizing positive participation and recognizing valuable members of the community.

Lastly, an optional integration with the college **ERP system** is envisioned to streamline academic and administrative updates. This could include automated event reminders, grade alerts, and attendance notifications directly within the app, making Campus Social Hub a comprehensive digital companion for student life.