

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum -590014, Karnataka.



MOBILE APPLICATION DEVELOPMENT REPORT on

B.M.S CLUB MANAGEMENT

Submitted by

**RAGHAVENDRA N (1BM22CS213)
PRAJWAL C (1BM22CS198)
PRAJWAL K K (1BM22CS199)
PRANAV R HEGDE (1BM22CS202)**

Under the Guidance of
Prof. M Lakshmi Neelima
Assistant Professor, BMSCE

in partial fulfillment for the award of the degree of
BACHELOR OF ENGINEERING
in
COMPUTER SCIENCE AND ENGINEERING



B.M.S. COLLEGE OF ENGINEERING
(Autonomous Institution under VTU)
BENGALURU-560019
April-2024 to July-2024

B. M. S. College of Engineering,
Bull Temple Road, Bangalore 560019
(Affiliated To Visvesvaraya Technological University, Belgaum)
Department of Computer Science and Engineering



CERTIFICATE

This is to certify that the project work entitled “**B.M.S CLUB MANGAMENT**” carried out by **Raghavendra N(1BM22CS213), PRAJWAL C(1BM22CS198), PRAJWAL K(1BM22CS199) AND PRANAV R HEGDE(1BM22CS202)** who are bonafide students of **B. M. S. College of Engineering**. It is in partial fulfillment for the award of **Bachelor of Engineering in Computer Science and Engineering** of the Visvesvaraya Technological University, Belgaum during the year 2023-2024. The project report has been approved as it satisfies the academic requirements in respect of **Mobile Application Development (23CS4AEMAD)** work prescribed for the said degree.

Signature of the Guide
M Lakshmi Neelima
Assistant Professor, Dept. of CSE

BMSCE, Bengaluru

Signature of the HOD
Dr. Jyothi S. Nayak
Prof. & Head, Dept. of CSE

BMSCE, Bengaluru

External Viva

Name of the Examiner

Signature with date

1. _____

2. _____

B.M.S. COLLEGE OF ENGINEERING
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



DECLARATION

Raghavendra N(1BM22CS213), PRAJWAL C(1BM22CS198), PRAJWAL K K(1BM22CS199) AND PRANAV R HEGDE(1BM22CS202), students of 4th Semester, B.E, Department of Computer Science and Engineering, B. M. S. College of Engineering, Bangalore, hereby declare that, this Mobile Application Development entitled "**B.M. S CLUB MANAGMENT**" has been carried out by us under the guidance of **M Lakshmi Neelima**, Assistant Professor, Department of CSE, B. M. S. College of Engineering, Bangalore during the academic semester April-2024 to July-2024

We also declare that to the best of our knowledge and belief, the development reported here is not from part of any other report by any other students.

Signature

Raghavendra N (1BM22CS213)
PRAJWAL C (1BM22CS198)
PRAJWAL K K (1BM22CS199)
PRANAV R HEGDE (1BM22CS202)

Abstract

B.M.S Club Management is an innovative project collaboration platform designed specifically for BMS College of Engineering students and Event coordinator. This platform addresses the unique challenges faced by students on being unaware on the ongoing events. Utilizing Firebase Authentication for robust security, the platform ensures that only authorized users can access the system. Student can join the interested club and also attend events. The Clubs can notice higher number of students enrolling to the events. With the integration of Firebase, all user and project data are securely stored and consistently managed, ensuring reliability and data integrity. B.M.S Club Management not only simplifies the process of connecting students to their interested clubs also shows the individual student performance in extra co-curricular activities. By addressing the specific needs of BMS College of Engineering, B.M.S Club Management emerges as a valuable tool for individual development and adding up in extra co-curricular activity points.

Chapter 2

Introduction

Application development for “**B.M.S Club Management**”

This B.M.S Club Management supports following users

- a. Student
- b. Event/Club coordinator

Functionalities under Student login

- i. Build Profile: First Student have to login or sign up for the app using their respective college mail id and a unique passcode.
- ii. Event Register: Then the Upcoming events will pop-up in-home page of the app, if the student interested can easily click on the register button the get register to the event directly.
- iii. Joining Club: The student can also join the interested club by going through the clubs based on the departments.

Functionalities under Coordinator

- a) App coordinator sends the remembering push mail to event coordinator on a weekly basis about updating further events to be conducted in their respective clubs.
- b) Event coordinator replies back to app coordinator back by mail about the upcoming event and will forward the all required details that needs to be presented in our app.
- c) App coordinator responds to the mail and will update the event information on our app as soon as possible.

Chapter 3

Hardware and Software Requirements

2.1 Hardware Requirements

Development Machines:

- Processor: Intel Core i3/ i5, Qualcomm Snapdragon
- RAM: 8GB minimum (16GB recommended)
- Storage: SSD with at least 256GB (512GB recommended)
- Graphics: Integrated GPU (IRIS Xe) is sufficient, but a dedicated GPU can be beneficial for faster rendering
- Display: Full HD (1920x1080) resolution screen

2.2 Software Requirements

Operating Systems:

- Windows 10/11

Development Tools:

- Flutter and Dart SDK: Flutter 3.22, Dart SDK Version 3.4.4
- Android Studio: For Android development and emulator (Version 2024.1.1)
- Visual Studio Code: Preferred code editor with Flutter and Dart extensions (Version 1.91)
- Git: Version control system (Version 2.42.2)

Backend Development:

- Firebase SDKs: Version 33.1.2
- Firebase CLI: For managing Firebase projects.

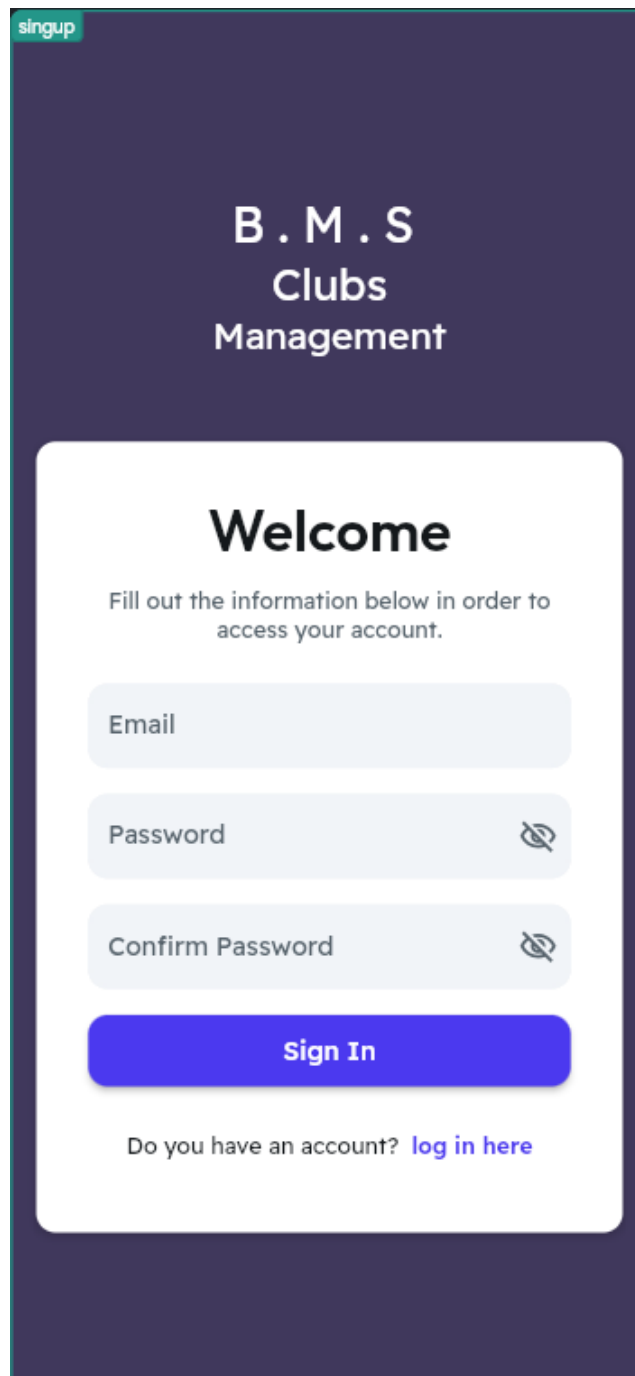
Collaboration Tools:

- GitHub: Repository hosting services.

Chapter 3

Design Layouts: Screen Shots of Mobile App / Webpages

3.1: Sign In/Out



The image shows a mobile app interface for "B.M.S Clubs Management". At the top left, there is a small green logo with the text "singup". The main title "B . M . S Clubs Management" is centered in white text on a dark purple background. Below this, a white rounded rectangle contains the sign-in form. The form starts with the word "Welcome" in bold, followed by the instruction "Fill out the information below in order to access your account." There are three input fields: "Email", "Password", and "Confirm Password". Each field has a light blue border and a corresponding icon (an eye for the password fields). Below the input fields is a blue button with the text "Sign In". At the bottom of the form, there is a link that says "Do you have an account? log in here".

singup

B . M . S
Clubs
Management

Welcome

Fill out the information below in order to
access your account.

Email

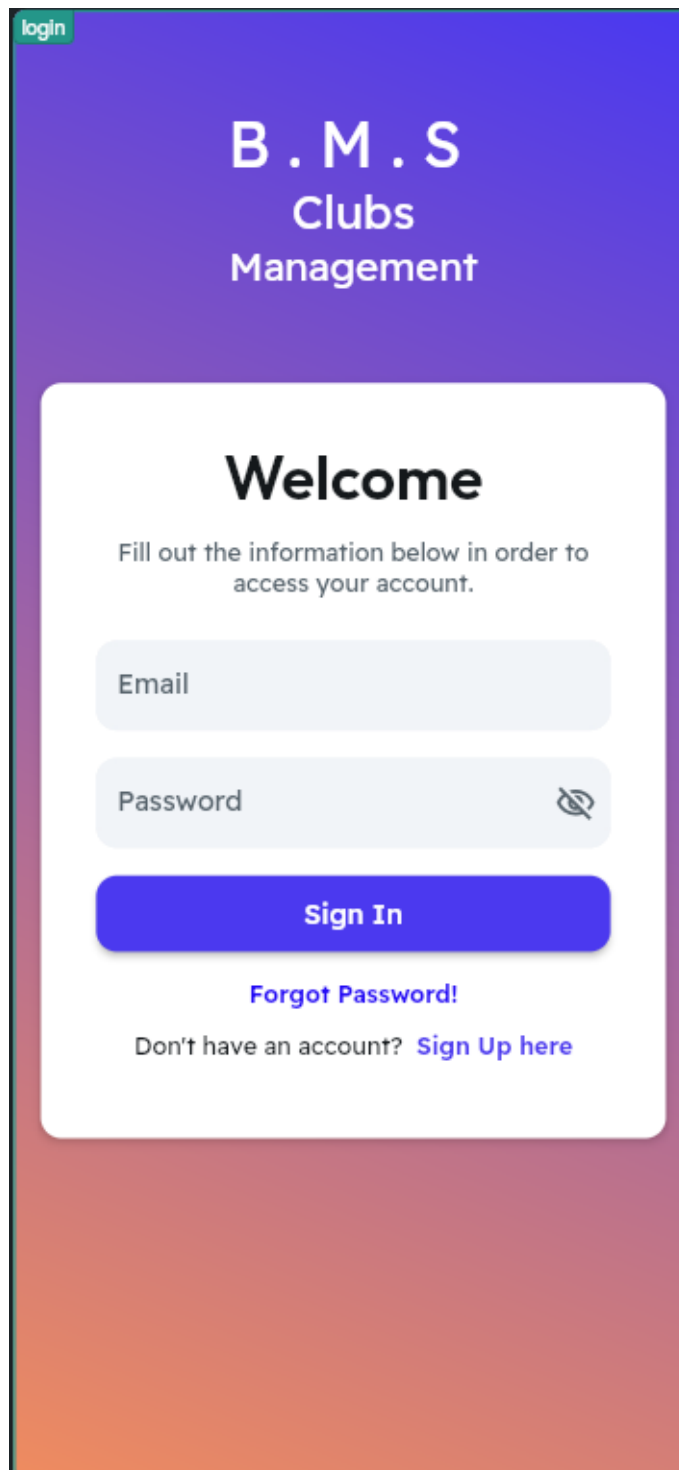
Password

Confirm Password

Sign In

Do you have an account? [log in here](#)

3.2: Login Page



The image shows a mobile app login screen for 'B.M.S Clubs Management'. The background is a vertical gradient from purple at the top to orange at the bottom. In the top left corner, there is a small green tab with the word 'login' in white. The app title 'B . M . S Clubs Management' is centered in white text. Below the title, a white rounded rectangle contains the login form. Inside this rectangle, the word 'Welcome' is at the top, followed by the instruction 'Fill out the information below in order to access your account.' There are two input fields: 'Email' and 'Password'. The 'Password' field has a toggle icon (an eye with a slash) to its right. Below the fields is a blue 'Sign In' button. At the bottom of the white rectangle, there is a link 'Forgot Password!' and a text line 'Don't have an account? Sign Up here'.


login

B . M . S Clubs Management

Welcome

Fill out the information below in order to
access your account.

Email

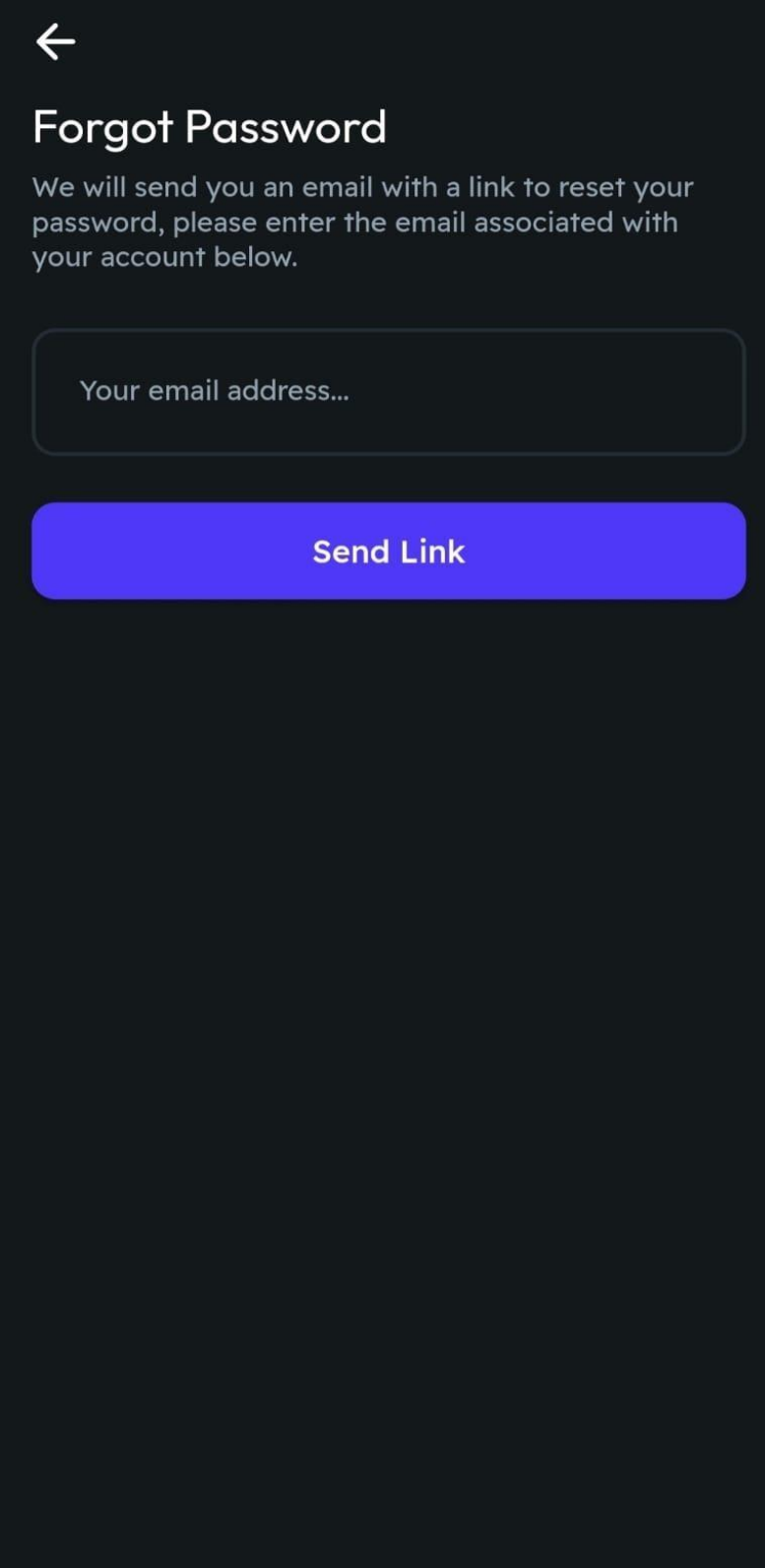
Password 

Sign In

[Forgot Password!](#)

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

3.2: Login Page

A mobile app interface for a 'Forgot Password' screen. It features a dark blue background. At the top left is a white back arrow. Below it is the title 'Forgot Password' in white. A paragraph of white text explains the process: 'We will send you an email with a link to reset your password, please enter the email associated with your account below.' Below this is a white rounded rectangular input field containing the placeholder text 'Your email address...'. At the bottom is a large, rounded rectangular button with a blue-to-purple gradient, labeled 'Send Link' in white text.

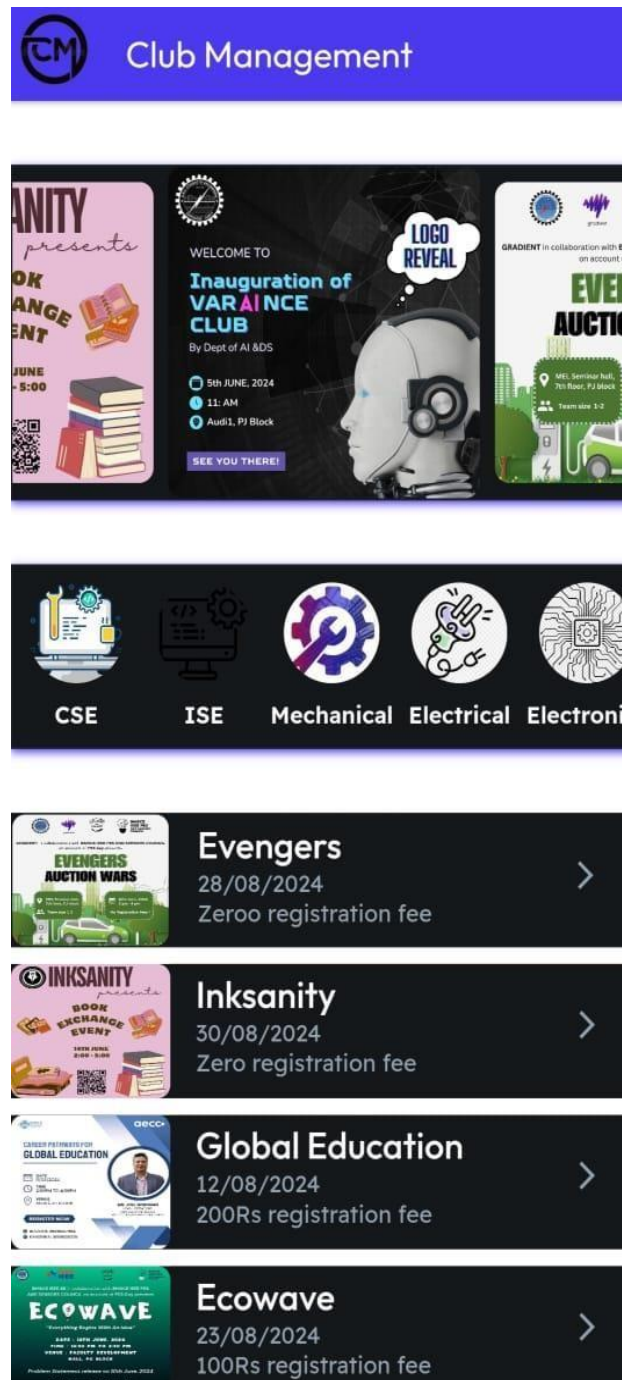
←

Forgot Password

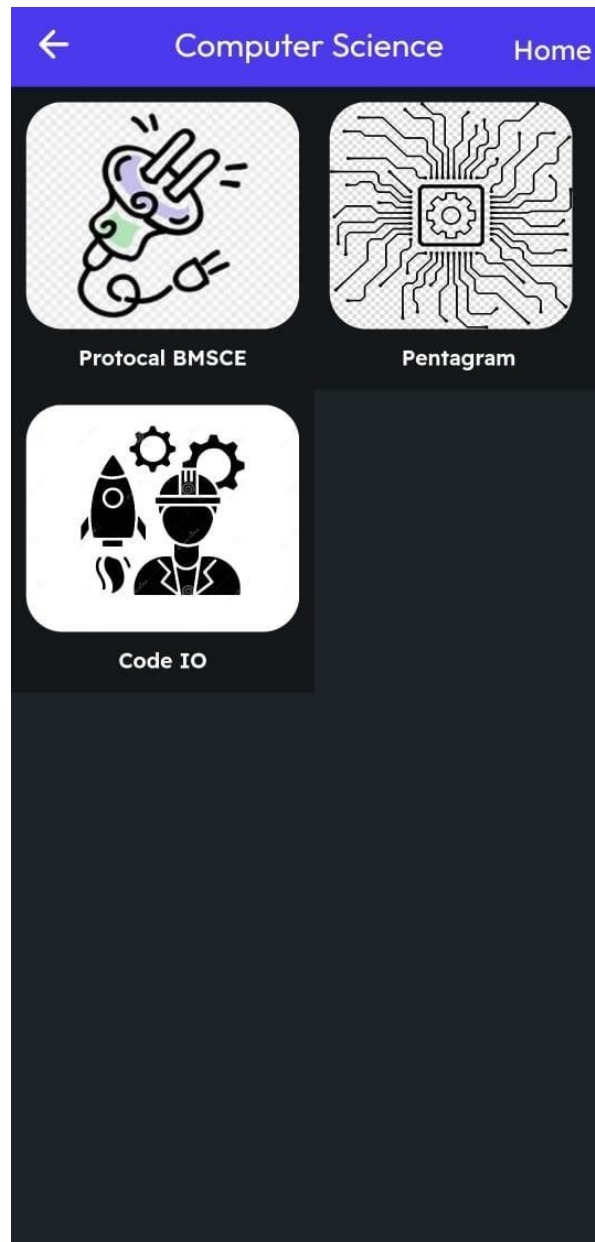
We will send you an email with a link to reset your password, please enter the email associated with your account below.

Send Link

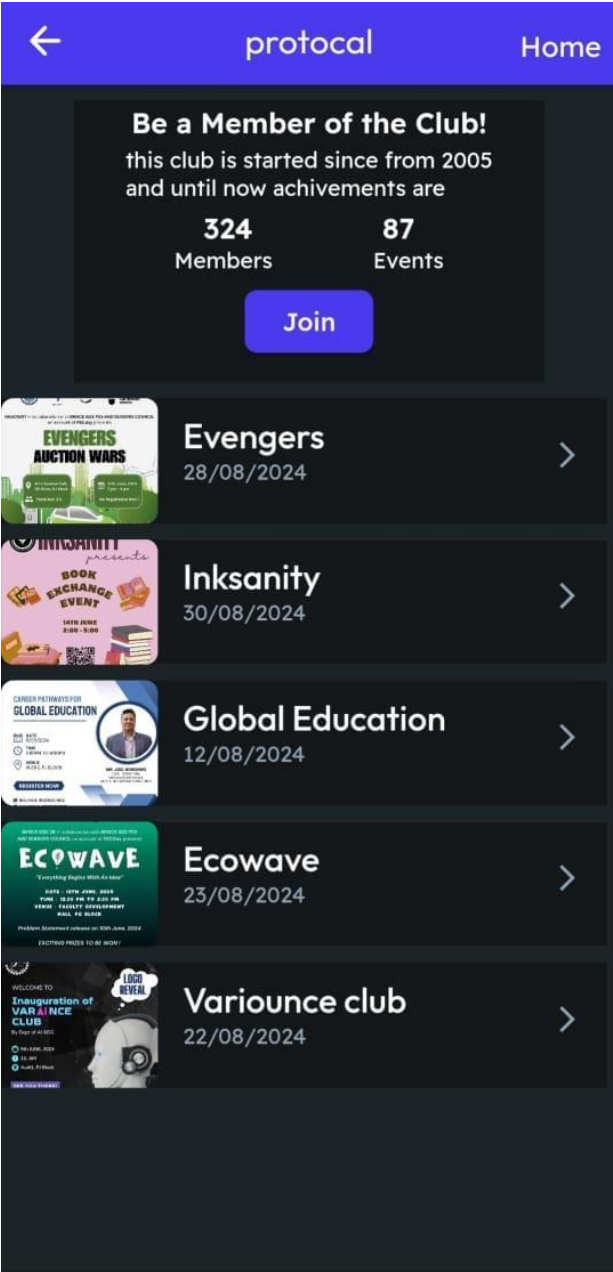
3.3: Home Screen



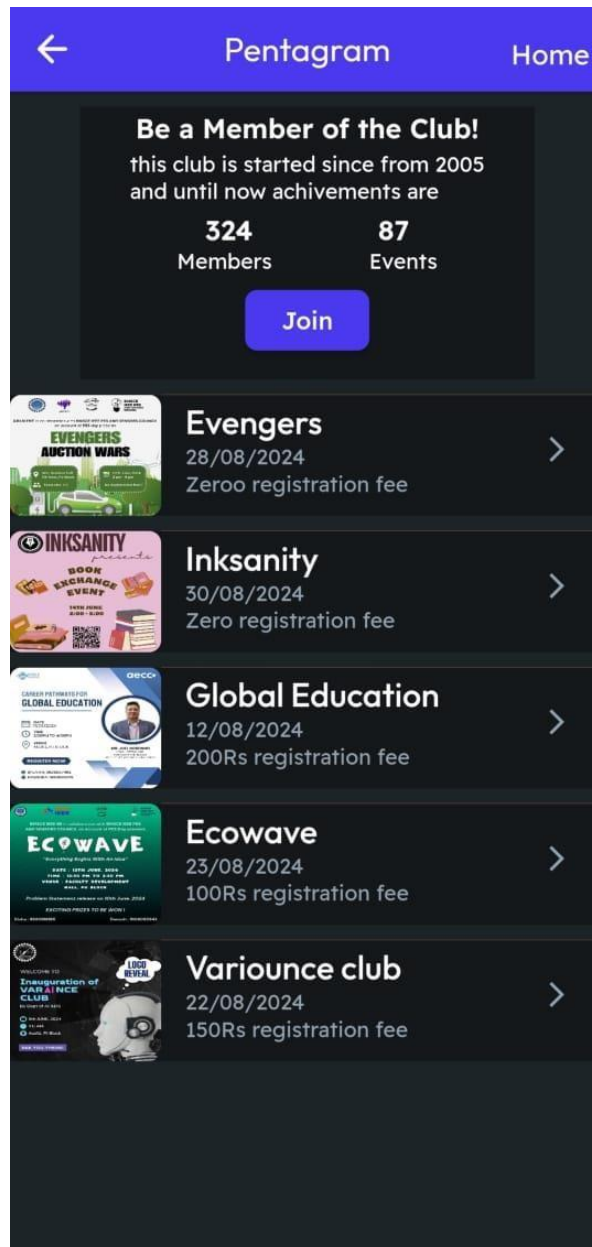
3.4. Club Details



3.8: Club Home Page




3.9: Club Home Page



3.6 Event Page

← Evengers Register

Dead Line: 27/07/2024 !!



Evengers

✨Greetings from GRADIENT , the AIML Club of BMSCE ✨

On the occasion of PES week 2024, in collaboration with IEEE PES and Sensors Council , we are thrilled to present "EVENEGERS : Auction wars"

🔧 Gear up for an exciting event with puzzles 🧩 and a jeopardy-style game. Dive into an EV auction 🚗, bid on parts 💰, and strategize for victory 🏆.

★ Don't miss out on this EXCLUSIVE opportunity to win exciting prizes

🔗 Registration Link : <https://forms.gle/792VNBqLWkhtJNFJ6>

Event Details:

- 📅 Date: June 12th, 2024
- 🕒 Time : 2:00 pm - 4:00 pm
- 📍 Venue: MEL Seminar Hall, 7th floor, PJA Block
- 👥 Team Size: 1-2 Members
- 💰 Registration Fee : FREE

For Queries:

- 📞 Pranav : +91 80731 94166
- 📞 Prarthana : +91 63601 80057

Register

Chapter 4

Database Table Screen shots

4.1.1. Login users: data

Club Management ▾

Authentication

Users | Sign-in method | Templates | Usage | Settings | Extensions

Cross origin redirect sign-in on Google Chrome M115+ is no longer supported, and will stop working on June 24, 2024. ▾

Search by email address, phone number, or user UID

Add user

⌂

⋮

Identifier	Providers	Created	Signed In	User UID
prajwalkk.cs22@bmsce...	✉	Jul 15, 2024	Jul 16, 2024	nnCg6Al64ZcxKowqMAH50e...
aaa@gmail.com	✉	Jul 15, 2024	Jul 15, 2024	k5xhPiULr7RMCDpehNvxhjpK...
prajwalc.cs22@bmsce...	✉	Jul 15, 2024	Jul 15, 2024	rL4yT100figlV2ttikYf8ukXoAn2
raghu123@gmail.com	✉	Jul 14, 2024	Jul 14, 2024	uTIBVt1Yu0S19xR176w9bMrL...
raghavendra@bmsce.a...	✉	Jul 14, 2024	Jul 14, 2024	790EjKxhPle6omdDVH0vR2Xy...
raghu@bmsce.ac.in	✉	Jul 13, 2024	Jul 13, 2024	u8UqOFJyJyJwTVEikntXTTrCDUvF...
raghu333@bmsce.ac.in	✉	Jul 12, 2024	Jul 12, 2024	MgBcUgoOWrfPRbPqMfRvdi1...
raghu@gmail.com	✉	Jul 12, 2024	Jul 16, 2024	nTXfeg5c2YhHJOMYWKfXyZw...
firebase@flutterflow.io	✉	Jun 22, 2024	Jul 15, 2024	lzVFIAJ01eT9ZkT1gCG0dDJm...

Rows per page: 50 ▾ 1 - 9 of 9 < >

Club Management

Cloud Firestore

Add database

Data

Rules

Indexes

Usage

Extensions

Protect your Cloud Firestore resources from abuse, such as billing fraud or phishing

Configure App Check

Panel view

Query builder

Home

Event_payregi

aCMOPvJyGLg...

More in Google Cloud

(default)

Event_payregi

aCMOPvJyGLgNcUQRfIT

+ Start collection

Event_payregi

clubmanagement

clubregister

clubname

evengersregi

event_nonpayregi

events

protocol_events

qr

+ Add document

aCMOPvJyGLgNcUQRfIT

+ Start collection

+ Add field

branch: "CSE"

email: "raghavendra@bmsce.ac.in"

gender: "Male"

name: "raghavendra N"

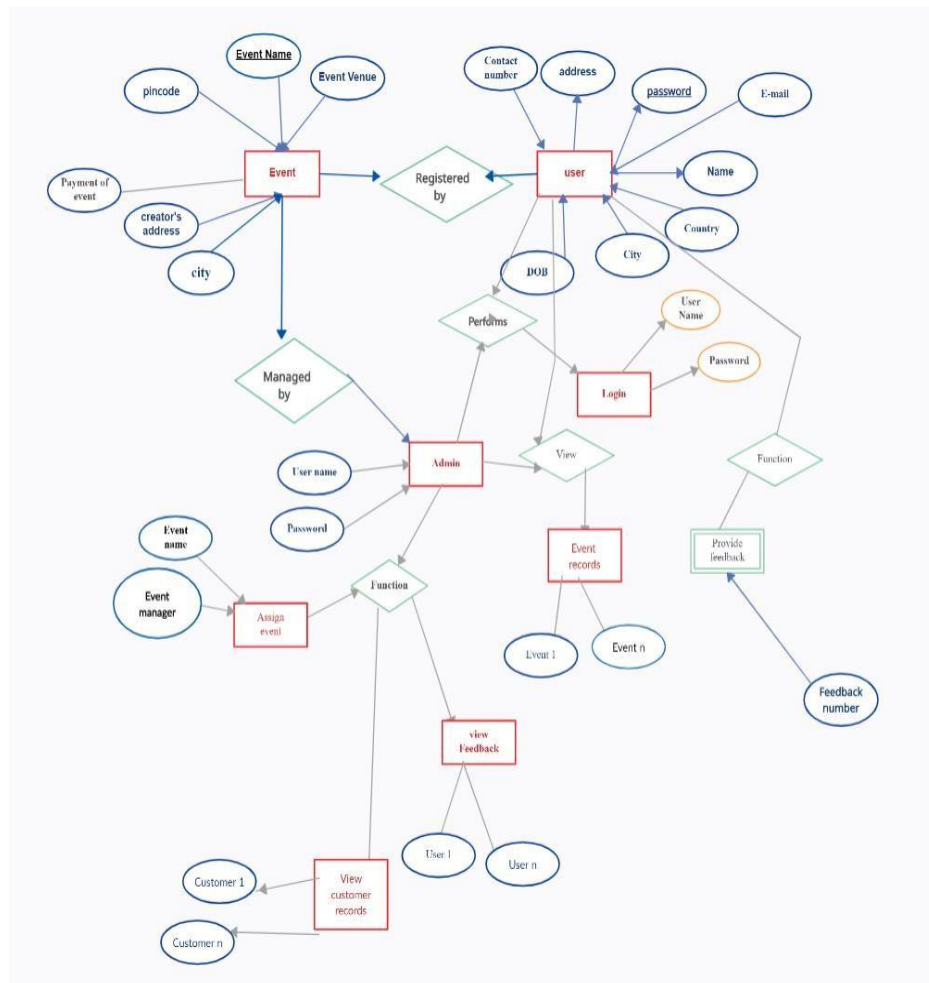
payment_uttr: "2345sdfgh3456"

phone_number: 7619200667

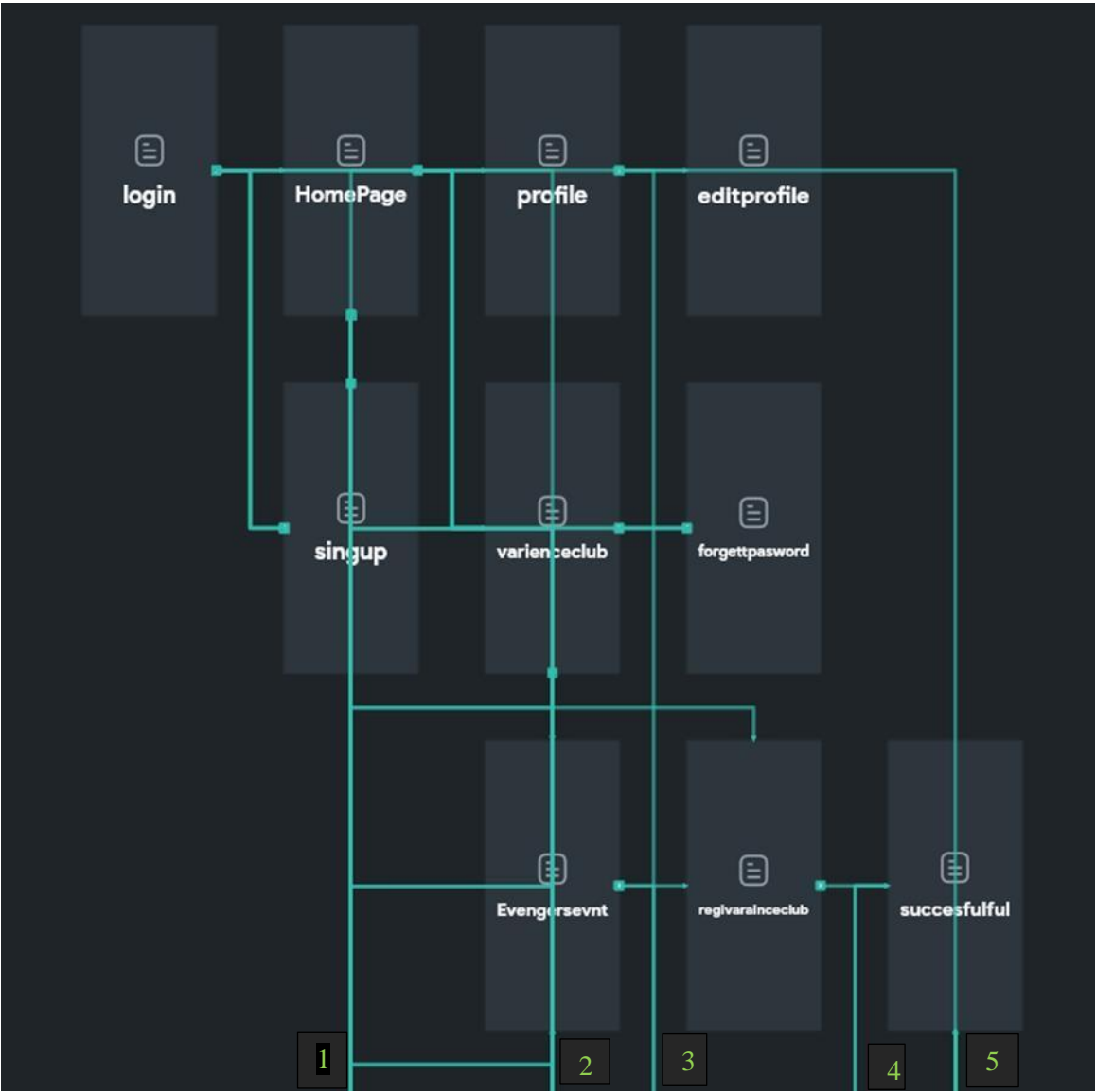
sem: "4"

usn: "1bm22cs213"

4.2.1. ER Diagram



4.2.16 DESIGN LAYOUT



4.2.17 DESIGN LAYOUT



Conclusion and Future Work

B.M.S Club Management effectively resolves the challenges of student collaboration with B.M.S Clubs. The platform provides secure, efficient, and user-friendly functionalities for both Club management and students. Key features include event registration, club joining and profile building, all of which foster a productive academic and professional environment. The successful integration of Firebase Authentication and Fire store demonstrates the potential of modern technologies in enhancing project management and collaboration.

Future Work

1. **Enhanced Communication Tools:** Add live video conferencing.
2. **AI and Machine Learning:** Implement AI for event recommendations and improve user experience.
3. **Adding Event Coordinator Sign in/Login Page:** Implement the Event Coordinator Login Page.
4. **One – Click Registration:** Adding a single button on registration for respective events.

References

- [1]docs.flutter.dev/get-started/install
- [2]firebase.google.com/docs/guides
- [3][firebase.google.com/docs/cli#install the firebase cli](https://firebase.google.com/docs/cli#install_the_firebase_cli)
- [4]dart.dev/get-dart
- [5]firebase.google.com/docs/analytics