Uni-Club: A Web Based Club Management Portal

BY

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This Report Presented in Partial Fulfillment of the Requirements for the Degree of Bachelor of Science in Computer Science and Engineering

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APPROVAL

This Project titled "Uni-Club: A Web Based Club Management Portal", submitted by Khondokar Md. Mehedi Hasan to the Department of Computer Science and Engineering, Daffodil International University, has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 21 January 2024.

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DECLARATION

We hereby declare that, this project has been done by us under the supervision of **Dr. Md. Ismail Jabiullah, Professor, Department of CSE** Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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Finally, we must acknowledge with due respect the constant support and patients of our parents.

ABSTRACT

The Uni-Club aims to establish a vibrant extracurricular community at the Private University of Bangladesh, providing students with opportunities to engage in a range of activities beyond their academic studies.

Uni-clubs provide students with opportunities to develop their interests, hobbies, and skills. These clubs organize events, seminars, workshops, and competitions that promote student engagement and enhance their academic, personal, and professional development. Additionally, uni-clubs create a sense of community among students, foster a supportive learning environment, and help develop teamwork and leadership skills.

However, there are some potential drawbacks associated with uni-clubs. They can be exclusive, as certain groups of students may dominate the organization, leaving others marginalized. Furthermore, the resources allocated to uni-clubs may not always be equitable, and there is a risk that they may become overly politicized.

Despite these limitations, the merits of uni-clubs in private universities of Bangladesh are significant. They provide a means for students to engage with one another and with the broader university community, and to develop a range of skills and abilities that will be invaluable in their personal and professional lives. Ultimately, uni-clubs are an essential component of student life in private universities in Bangladesh.

Significant contributions are the development of essential Uni-club modules such as the Notice Board, Uniclub Core, Application, Application Session, and Configuration. This effort serves as the foundation, enhancing user communication, system core working, application management, and configuration settings, and increasing the overall performance and benefit of the Uni-club platform.

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CHAPTER 1

Introduction

1.1 Introduction:

Uni-club is the ultimate solution to enhance your university club experience. Uni-club, as a dynamic web-based platform, advances club management by providing members with easy access to essential information, smooth communication channels, and registration for events. This secure platform promotes constructive project work and efficient membership management, while advanced financial features enable executives to organize budgets and analyze expenses. The attendance tracking and streamlined operational features of Uni-club allow leaders to concentrate on engagement and innovative ideas. Uni-club is more than a platform; it is a catalyst for vibrant, linked, and efficient club ecosystems.

1.2 Motivation:

For every new student stepping onto campus, The Uni-club is more than simply a platform—it is a journey to change the landscape of university club management. In my quest, I get inspired by the possibility of redefining how clubs function, communicate, and thrive. This attempt was inspired by the target of a centralized hub that not only meets but surpasses expectations. Uni-club is a chance to innovate, surprise, and leave a lasting impression on the dynamic university community. Each line of code, every feature created, is a step toward a future in which clubs not only work smoothly, but also spark a new era of involvement, cooperation, and success.

My objective is to welcome newcomers with open arms, offering a location where they are able to explore, connect with, and interact with groups that correspond with their interests. I see Uni-club as a catalyst for their journey, a tool that breaks down barriers and makes club membership simple and enjoyable.

1.3 Objective:

The aims of Uni-club include various aspects like Centralization, Efficient Communication, Streamlined Administration, Enhanced Collaboration, Attendance Tracking, Financial Management, Personalized Experiences, Increased Member Engagement, Security and Privacy, Innovation and Adaptability.

A single platform that will serve as the primary hub for all club-related activities, providing easy access to information, tools for communication and collaborative functions. Enabling ongoing communication between club members and leaders, will create a vibrant and active community. This software allows club leaders to focus on increasing engagement and creativity by simplifying administrative duties such as event registration, membership administration and financial control. At events and conferences, clubs use attendance monitoring features, which provide leaders with information about how to boost member involvement and engagement. Prioritize the safety of club data and member information by establishing a safe atmosphere that inspires trust in users.

1.4 Expected Outcome:

The expected results include an additional simplified and effective university club engagement. Members can easily find information, interact effectively, and collaborate on initiatives, developing a vibrant club environment. Administrative duties like event registration and membership administration are streamlined, freeing up leaders' time to focus on innovation. Attendance tracking and financial management solutions improve leadership insights, allowing clubs to run more efficiently. Predictive analytics-based personalized experiences help to boost member engagement. The platform's security mechanisms ensure that sensitive data is kept safe. Uni-club strives to be adaptive, adapting in response to the changing demands of university clubs. Finally, the anticipated results include a user-friendly, creative platform that redefines and improves the university club experience for all stakeholders.

CHAPTER 2
Background

2.1 Introduction

Student clubs and societies act a significant part in building community, teamwork, and individual growth in every aspect of university life. Recognizing the problems and potential in this changing environment, the Uni-club project develops as a reaction to improve the university club experiences. Uni-club is a pioneering initiative to develop an integrated system that acts as the nerve center for all club-related operations. It was born out of a desire to streamline administrative operations, improve communication, and enrich engagement. Its origins can be traced back to a desire to give students a cohesive, easy to use solution that goes beyond conventional club management, allowing for seamless collaboration as well as creativity. Uni-club emerges as a positive change agent, prepared to reimagine how university clubs operate and interact in order to build a lively, inclusive, and forward-thinking campus community.

2.2 Related Work

Through extensive research, we identified several platforms analogous to our project. Delving into their functionalities and operational paradigms offers valuable insights for Uni-club's development. Notable examples in the realm of club management systems include CampusGroups, OrgSync, and Presence. CampusGroups provides a centralized space for student organizations, emphasizing event planning and attendance tracking. OrgSync streamlines administrative tasks and enhances member engagement through communication tools. Presence focuses on student involvement and offers features for organization management and involvement tracking. Analyzing these platforms informs Uni-club's feature set, drawing inspiration from successful implementations. In addition, local initiatives like "MyEngage" have demonstrated effective user-friendly interfaces for active student participation. Uni-club aims to amalgamate the strengths of these

platforms, tailoring its features to create a cohesive and intuitive club management system for diverse university contexts.

2.3 Comparative Studies

In order to gain information and help decision-making, a comparative study must compare and contrast different methods, structures, and solutions. Within the framework of a club management system such as Uni-club, a comparative analysis may entail looking at several present solutions and associated projects. Here is an example to help clarify:

Here is an overview of CampusGroups:
CampusGroups is an extensive platform developed to help students become involved, administer organizations, and arrange events in university settings.

Important features include:

- Event Management :CampusGroups provides tools for program planning and management, allowing groups to promote and measure participation.
- Communication Hub: It acts as a primary networking center, allowing members to interact, share knowledge, and collaborate.
- Membership Tracking: The platform enables organizations to properly track and manage their memberships.

Here is an overview of OrgSync:

OrgSync is a software referred to to enhance communication and collaboration between student organizations by simplifying administrative tasks.

Important features include:

- Administrative Tools: OrgSync includes tools for managing memberships, measuring participation, and streamlining administrative activities.
- Communication: It is facilitated by the platform through messaging, announcements, and discussion forums.
- Event Planning: OrgSync helps with event planning, registration, and attendance tracking.

Here is an overview of Presence:

Presence concentrates on learning and engagement, and it provides tools for monitoring and improving student participation in campus events.

Important features include:

- Tracking Student Involvement: Presence offers analytics for evaluating student involvement, helping institutions in understanding and improving participation.
- Organization Management: The software helps student organizations manage their own, providing event planning and communication.
- customization: Presence enables for some degree of variation to satisfy the specific needs of various organizations.

Similarity:

- **Membership Management:** Uni-club, like CampusGroups, OrgSync, and Presence, allows excellent membership management, allowing clubs to efficiently track and manage their members.
- **Event Planning and Management:** Uni-club, like CampusGroups, OrgSync, and Presence, offers tools for event planning and management. This includes event registration, marketing, and attendance tracking instruments.
- **Communication Hub:** Uni-club functions as a centralized communication center, allowing for smooth contact and cooperation among club members and leaders, similar to features found in CampusGroups, OrgSync, and Presence.
- **Owner/Leader Interaction:** Club leaders can create profiles on Uni-club, similar to the functionality of CampusGroups, OrgSync, and Presence, to successfully promote and run their clubs.

Dissimilarity:

- **Focus on Academic and Extracurricular Clubs:** Uni-club is designed only for university clubs, with an emphasis on both academic and extracurricular activity. Other platforms, on the other hand, may have a broader focus or cater to specific specializations.
- **Collaboration and Project Tools:** Uni-club offers features for collaborative project work within clubs, offering tools which enable effective communication on a variety of initiatives. This sets it above different platforms.
- **Predictive Analytics:** Uni-club uses statistical analysis to improve the member experience through specific suggestions. This is a one-of-a-kind functionality not present in CampusGroups, OrgSync, or Presence.
- **Adaptability:** Uni-club was designed to be flexible to shifting club demands, allowing the platform to grow and adapt in tandem with the dynamic nature of university club environments. This adaptability may be distinct from that of other platforms.

- **Integration of Innovative Features:** Uni-club planned to set up itself by including unique features such as predictive analytics and adaptability to boost the entire club administration experience. This emphasis on innovation may set it apart from more established platforms.

2.4 Scope of the problem

The scope of the Uni-club problem can be seen in the fragmented landscape of university club management. Existing systems frequently lack adaptability and new features, making efficient communication, cooperation, and member engagement difficult. Uni-club strives to fill these voids by providing a complete, user-friendly platform developed exclusively for academic and extracurricular institutions. The project's scope includes improving event planning, membership administration, and using predictive analytics, all while offering a single hub that adapts to the dynamic nature of university clubs. The solution suggested by Uni-club addresses our current limits, enabling a more unified, engaging, and forward-thinking environment for student organizations.

2.5 Challenges

Uni-club faces challenges such as adapting to diverse club needs, ensuring user-friendly interfaces, and integrating predictive analytics effectively. Overcoming technical hurdles, maintaining data security, and garnering widespread adoption pose additional complexities. Addressing these challenges is crucial to providing a seamless, innovative, and transformative experience for university club management.

CHAPTER 3
Requirement Specification

3.1 Business Process Modeling

Uni-club's business process model incorporates an overall user experience, beginning with registration and onboarding. A user can register for membership registration, which lays the groundwork for an improved user experience. Club leaders then set up and update club profiles, enabling effective membership tracking and engagement.

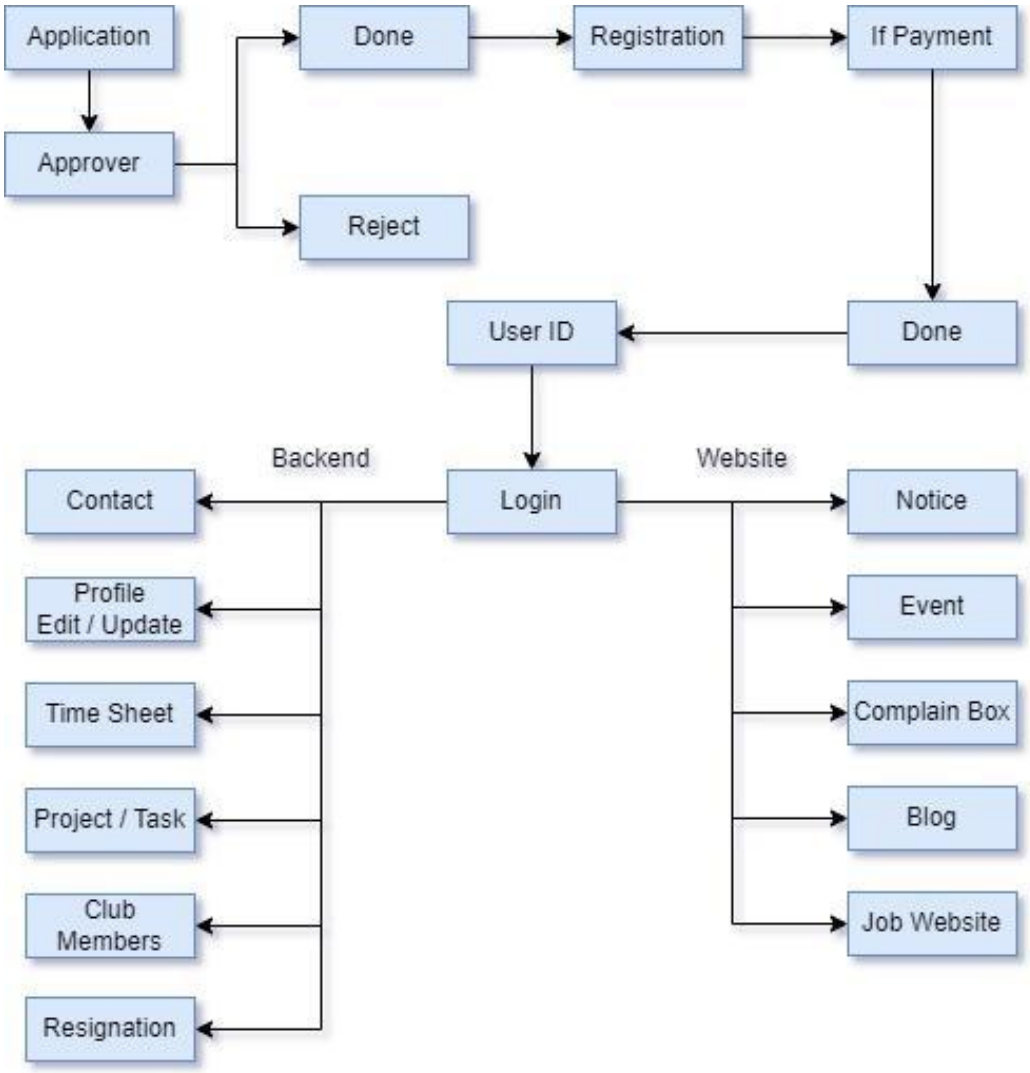
Event planning and administration become a focus, allowing groups to manage and promote events with features like registration and attendance tracking. Project tools enhance collaboration, allowing members to work more efficiently on working together targets. The use of predictive analytics is important because it analyzes user behavior to provide personalized event recommendations and tailored experiences.

Uni-club prioritizes versatility, including functionality based on user feedback regularly to meet the changing needs of different university situations.

Club leaders can use the tools available for financial management to manage budgets transparently, while their communication focus enables real-time messaging, discussion forums, and automated notifications, assuring effective communication among clubs. This complete methodology ensures that Uni-club solves the complexities of university club management while also providing a transformative and user-centric experience.

Uni-club, a cutting-edge web-based platform, demands a fresh look at university club management. We may specify the numerous operations, conversations, & outcomes that comprise Uni-club's seamless and user-centric functioning using business process modeling.

User:



Admin:

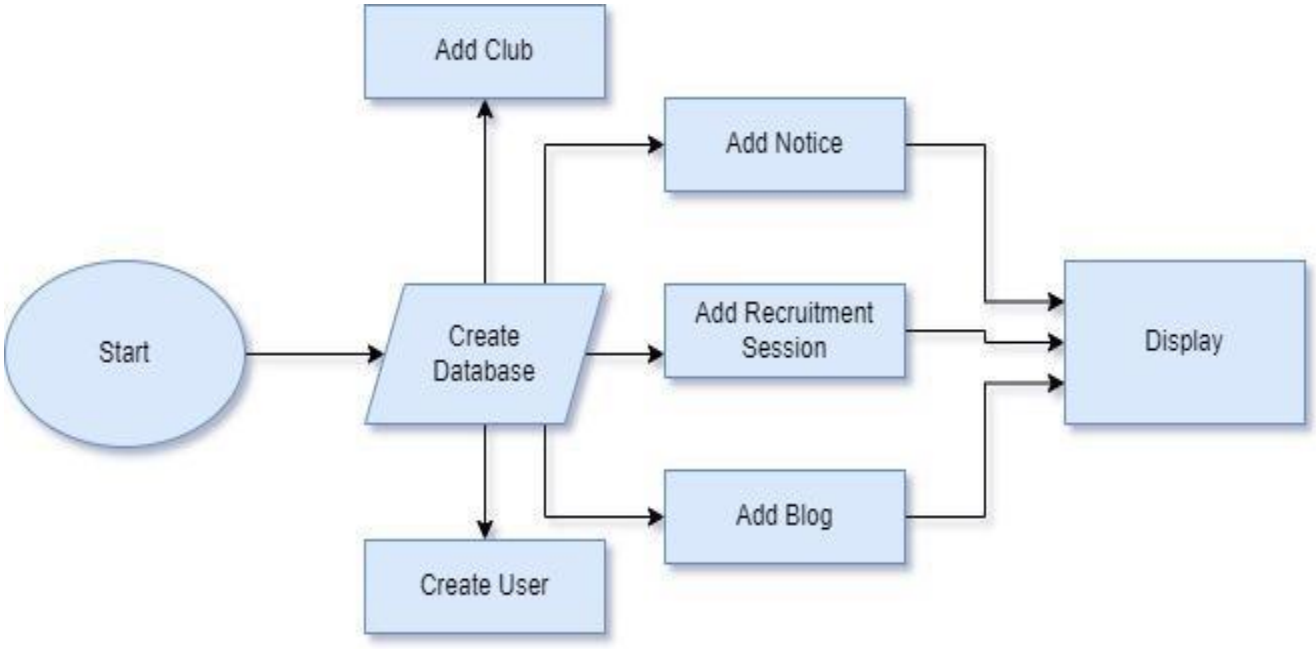


Figure 3.1.1: Business Process Model

This model enables administrators to execute a variety of critical system or platform management functions. The administrator may create a database, add clubs, post messages, plan recruitment sessions, provide blog content, and set up user accounts. These capabilities enable administrators to organize and control the platform's information, communication, and user management components more effectively.

3.2 Use case modeling and description

Uni-club Use Case Descriptions:

A basic method in system analysis for defining, characterizing, and classifying system requirements is the use case. It represents a set of conceivable interactions between entities in an environment, all centered on a certain goal. Use cases describe system activities that are important to users, facilitating the selection of features during the analysis phase.

Components:

- Actor: Represents entities with behavior, such as individuals, computer systems, or organizations.
- Scenario: A use case instance is a particular set of events and interactions between actors and the system.

Importance:

- Functional Requirements: Use cases provide a clear and trackable way to encapsulate functional requirements.
- Communication Representation: They describe the dynamic interactions between actors and the system.
- Hierarchical Structure: Use cases can be multi-level, with one improving the functionality of the other.

Contextual Analysis:

Three actors are identified in this use case: patrons, restaurant owners, and administrators.The scenarios tell unique stories about system interactions, such as the dynamics of administrative chores, client interactions, and restaurant owners' operational aspects.

The utilization of use cases successfully captures and communicates the system's complexities, ensuring a thorough grasp of functionality and interactions between various actors and the framework.

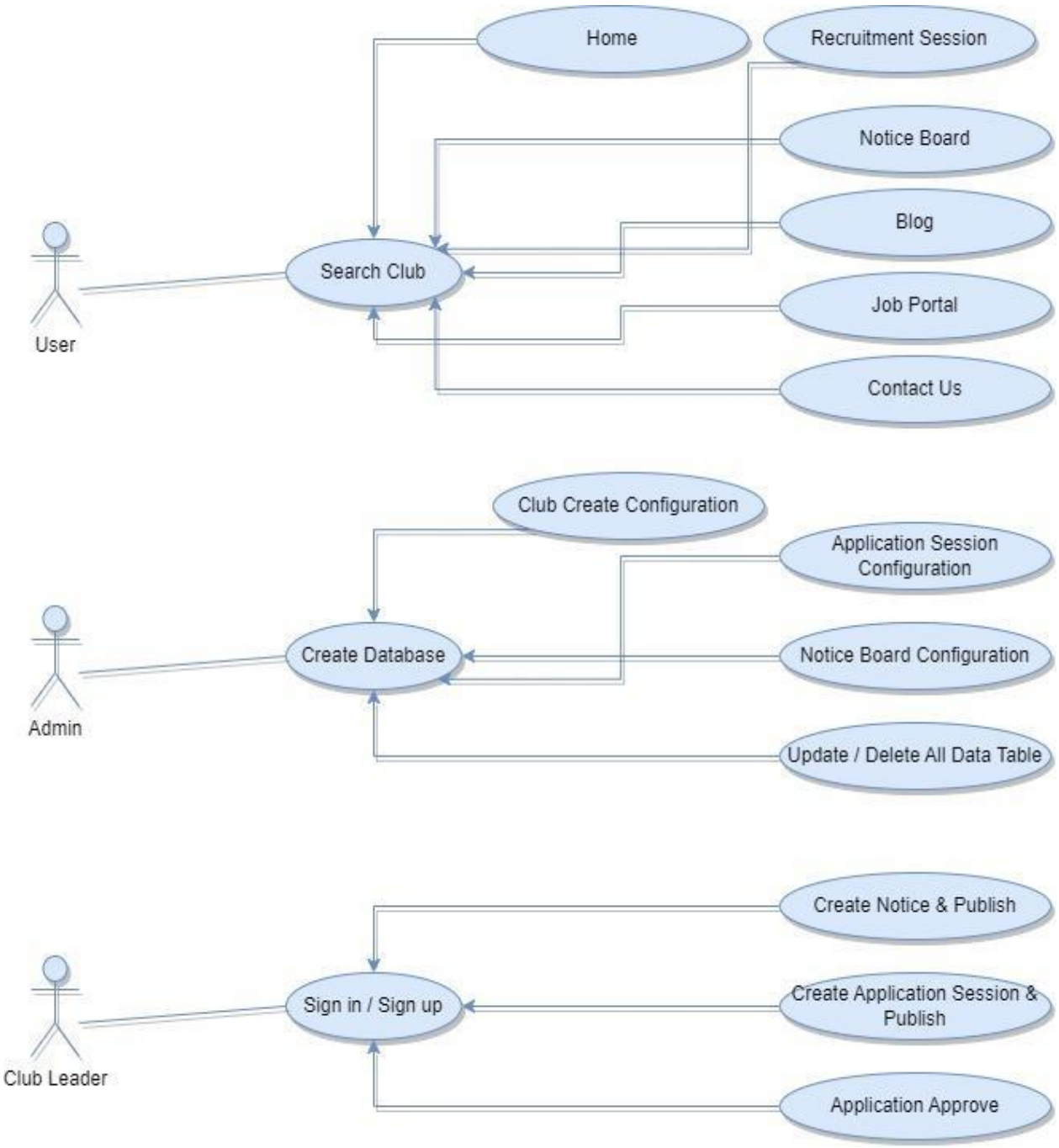


Figure 3.2.1: Use case Diagram

User:

- Can apply for membership.
- Members can browse and join club events listed on Uni-club.
- Engage in discussions within the club's communication channels, fostering collaboration and communication.
- Members can access the club roster to see who else is part of the club.
- Members can provide feedback on Uni-club's functionality and suggest improvements to enhance user experience.

Admin:

- Create and Manage User Accounts.
- Create new clubs or approve club creation requests from club leaders.
- Admins oversee user authentication processes, ensuring the security of user accounts.
- responsible for overseeing and implementing system updates based on user feedback and evolving needs.
- can generate reports on user engagement, club activities, and other relevant analytics.
- provide support and assistance to users facing issues or challenges within the platform.

Club Leader:

- Club Creation and Management.
- Ability to manage club memberships, including approving or removing members.
- Event Planning and Management.
- Start collaborative projects within the club, outlining tasks and assigning responsibilities.

3.3 Logical Data Model

Uni-club's logical data model gives an example of how important data elements and their interactions are structured. It includes things like Clubs, Events, Projects, Users, and Finances. Users are connected to Clubs, which facilitate the hosting of Events and Joint Projects. The structure of the model describes the features of every object and specifies the arrangement and storage of data in the system. In order to facilitate functions like Notice Board, Registration, and Blog participation, relationships are built to guarantee smooth interactions. The database design of the platform is based on Uni-club's logical data model, which facilitates effective data organization and retrieval.

A portion of the data introduced by a consistent logical data model incorporates the accompany in:

- Things
- Normalization
- characteristics of entities
- key sets (foreign keys, primary keys).
- Relationship

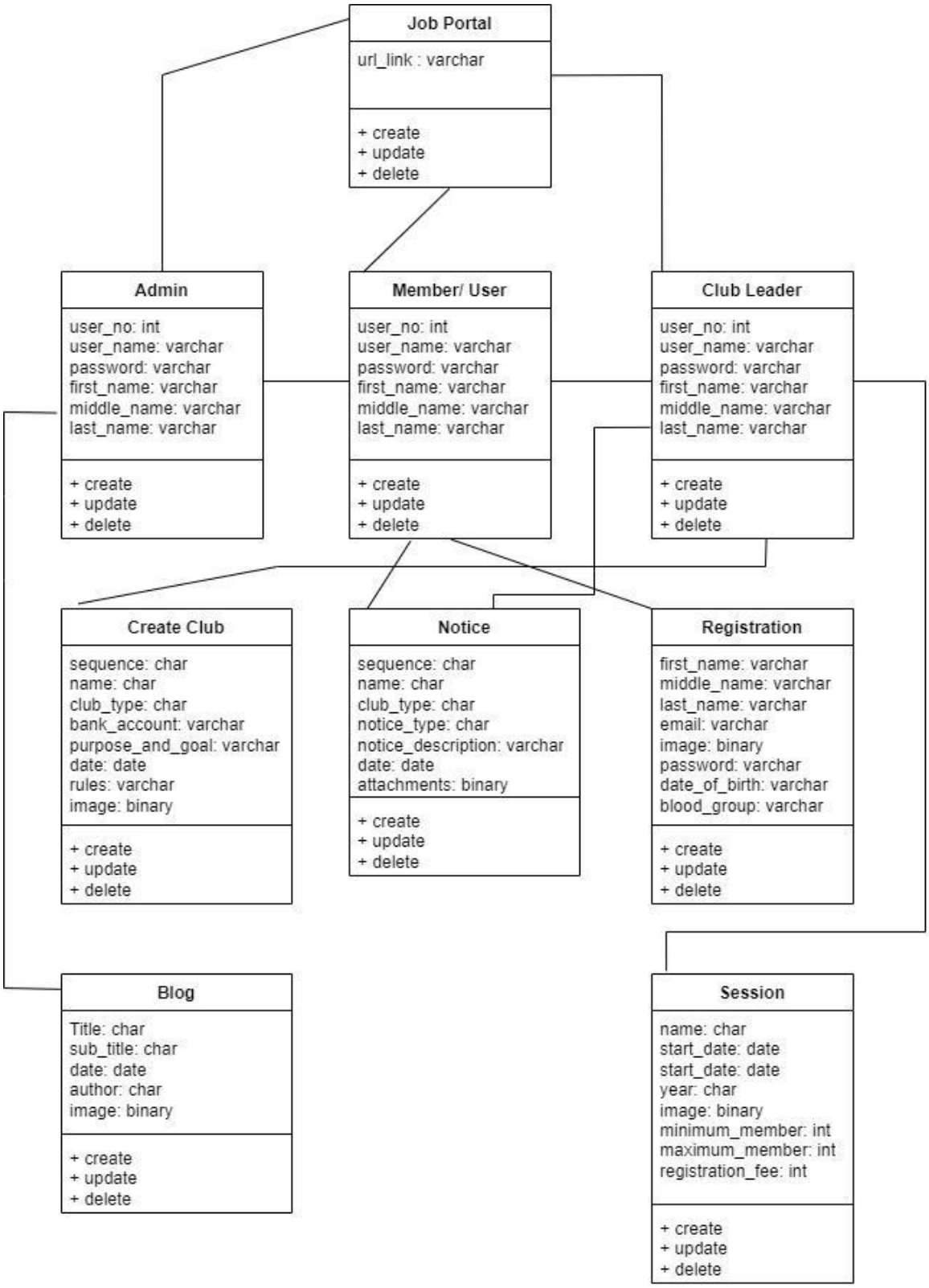


Figure 3.3.1: Logical Diagram

3.4 Design Requirements

To execute the plan, there are two sections are talk about.

- Front End
- Back End

Front end design specification is given bellow:
The standard building blocks of any website are HTML (Hyper Text Markup Language) and CSS (Cascading Style Sheets). It's also filled in as the website's framework. If this isn't done, the website just displays a simple text message. In addition, I am unable to update the site without these images.
We can develop intelligent components with JavaScript. It facilitates site navigation and continuous activity in a little amount of time, facilitates interface reloading, and gives the site more adaptable functionality.

In front-end design specifications with JavaScript, you'll typically define how the client interface behaves and interacts with users. Below is a basic example outlining key elements and considerations:

- User Authentication
- Navigation
- Club Pages
- User Profiles
- Loading Performance

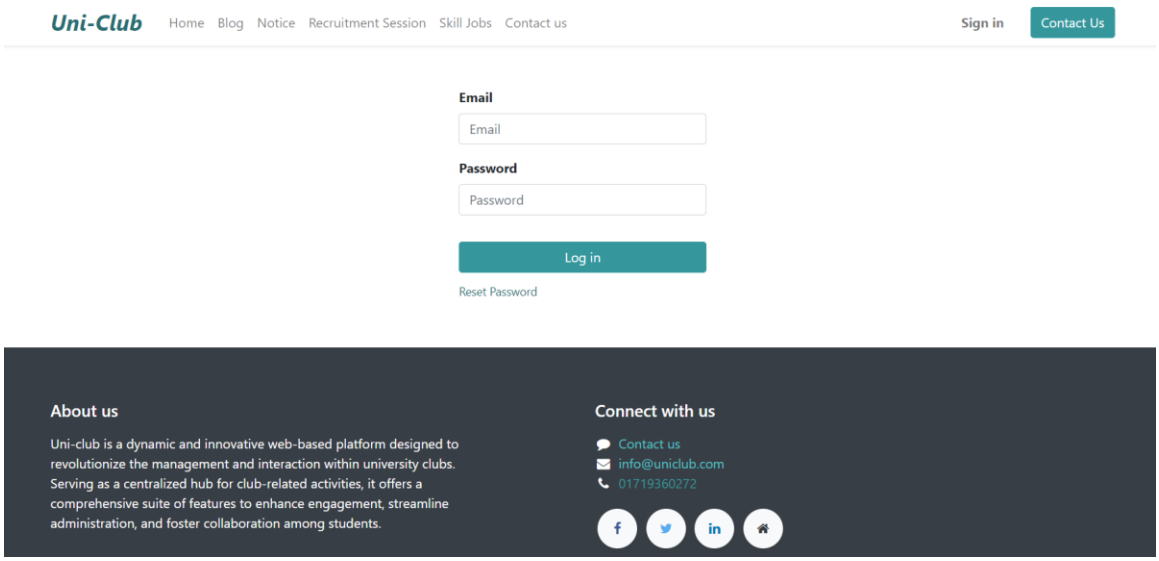


Figure 3.4.1: Demo of Front End Design

The standard for back-end design is provided below:

Uni-club's back end is designed with a solid and scalable architecture to handle data, implement business processes, and ensure smooth interactions between the server and the front end. The following are significant components and considerations for the back-end design:

- I chose Django, a server-side framework based on Python.
- Establish suitable relationships, such as one-on-one, one-to-many, and many-to-many.
- Implement business logic to manage user registration, club creation, notice boards, and money transactions.
- Validation and error handling of user inputs.
- User Authentication and Authorization.
- Optimize algorithmic and database searches for performance.
- Use data encryption for sensitive information, particularly passwords.

Software:

PyCharm, Vs Code: Accommodates multiple languages (Raw Html, css and JavaScript) and frameworks

Server: Localhost

Database:

PostgreSQL: it is used as the primary database; its many extensions support hundreds of use cases.

CHAPTER 4

Design Specification

For our project, we use a variety of techniques to create both front- and back-end design. This chapter includes a detailed review of the coding as well as every single element of the plan. We run the database table close to the conclusion of the discussion.

4.1 Front-End Design

First, I am starting from the home page. Here from the homepage, I can see which clubs are connected to my software.

Figure 4.1.1: Home Page

Users can easily login, and gain access to a world of club activities and collaboration.

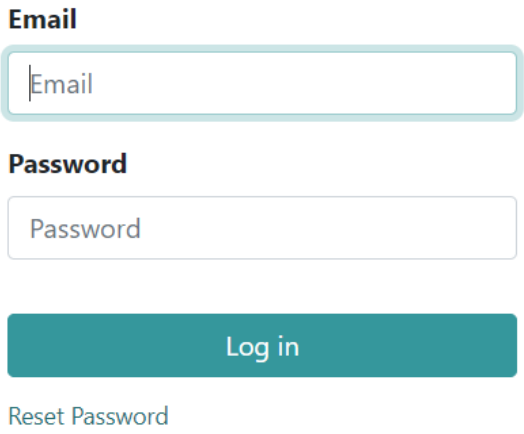


Figure 4.1.2: User login Page

After going to notice, you can see the notices of the club. Here all club notices can be seen together in one place.

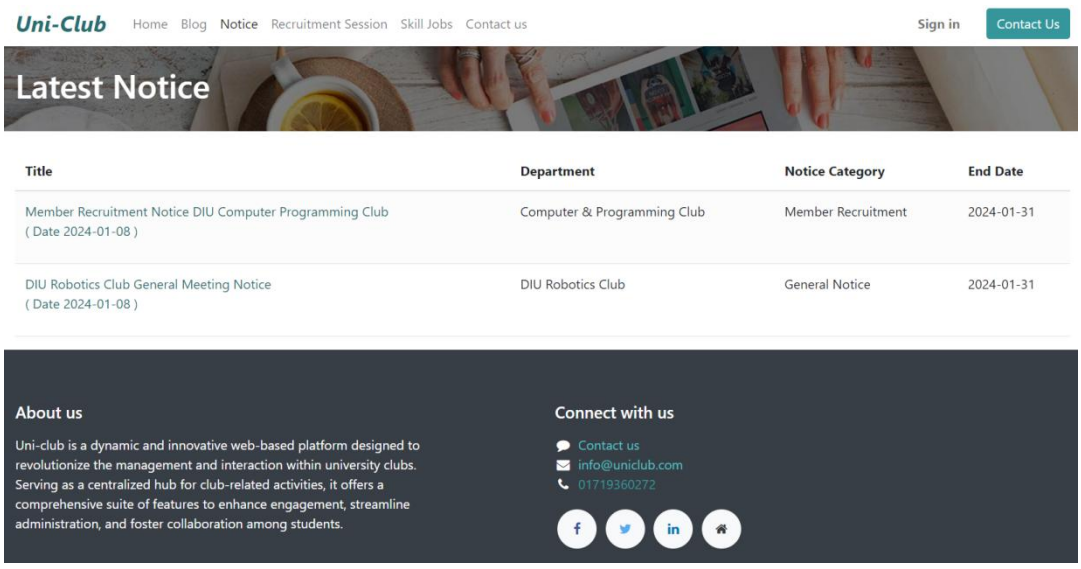


Figure 4.1.3: Notice Board Page

If you go to the Recruitment session here, you can see different sessions. Here every club can see the posts for its member recruitment. Anyone can apply to become a member from here.

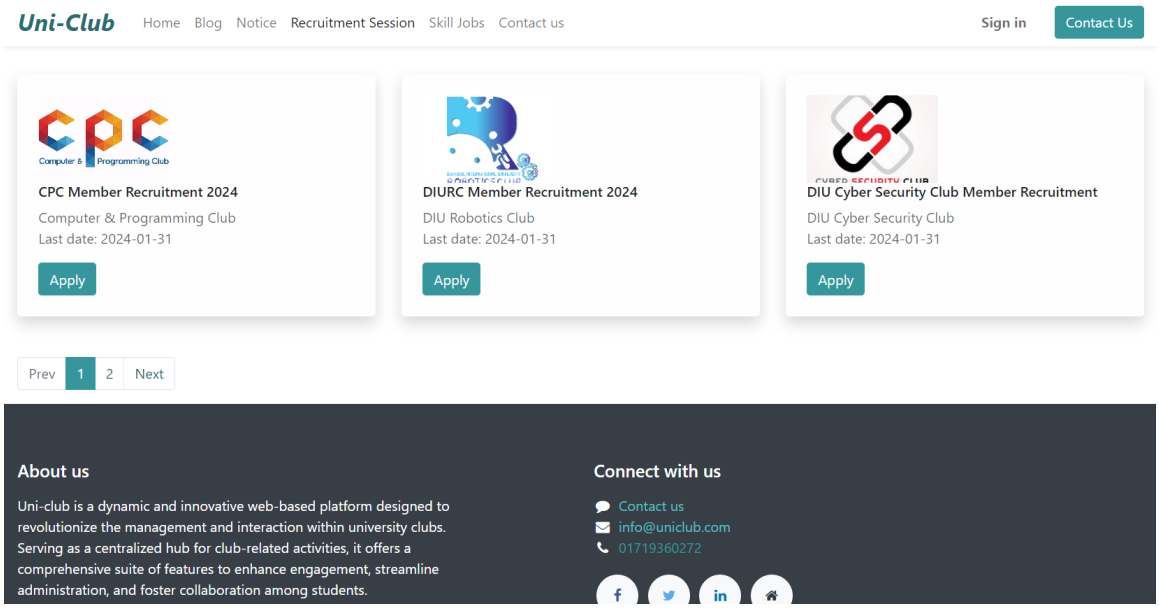


Figure 4.1.4: Recruitment Session Page

Anyone can contact the admin from here. By incorporating these elements, you can establish a means for users to contact the admin, fostering open communication and providing a channel for addressing inquiries or concerns.

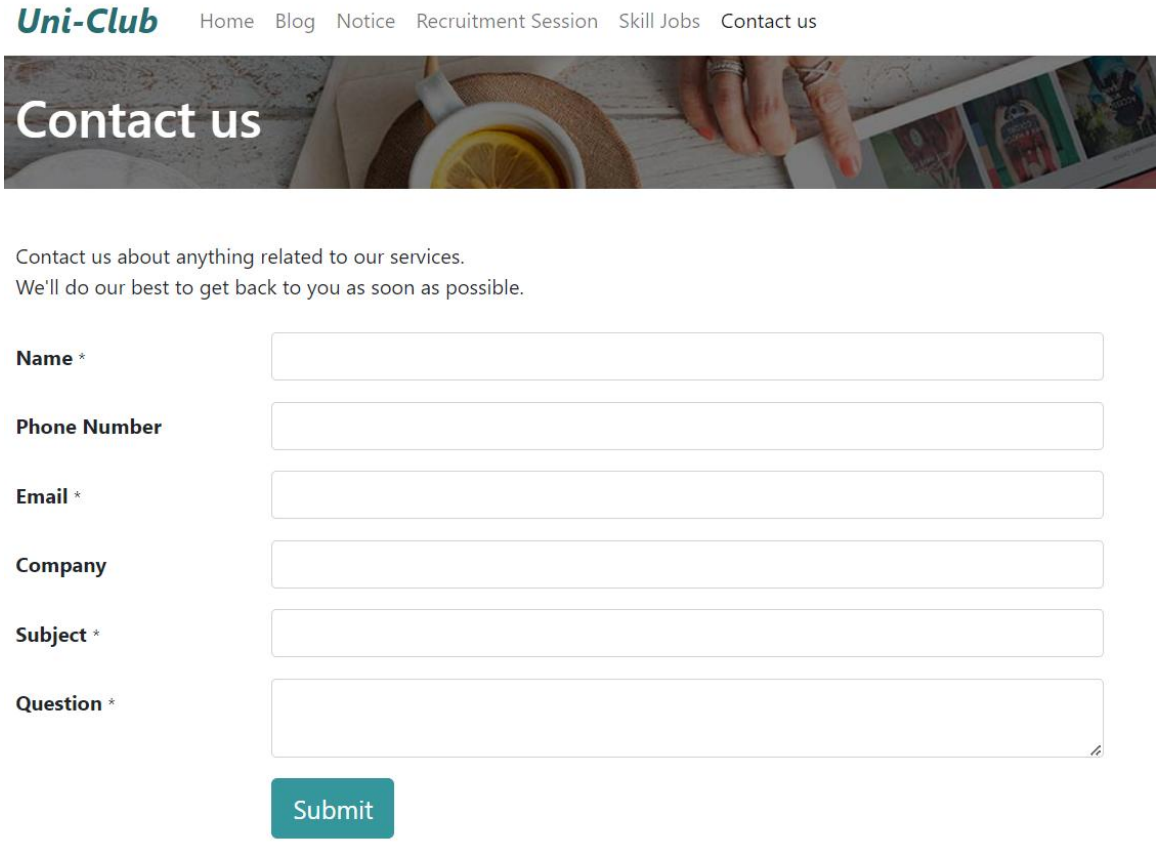


Figure 4.1.5: Recruitment Session Page

4.2 Back-End Design

A backend normally comprises three components: a database, an application, and a server.We use an application or programming to process the data and information we get from the front end. Once the data is obtained, it is passed through the server and stored in a database.Back end design refers to all of the coding required for this usage, run, and storage. For coding, we utilize Django, a server-side framework based on Python and the PostgreSQL database.

Software:
PyCharm, Vs Code: provides support for several languages (Raw Html, css and JavaScript) and frameworks

Server: Localhost

Database:
PostgreSQL: it is used as the primary database; its many extensions support hundreds of use cases.

Admin can easily login, and access.

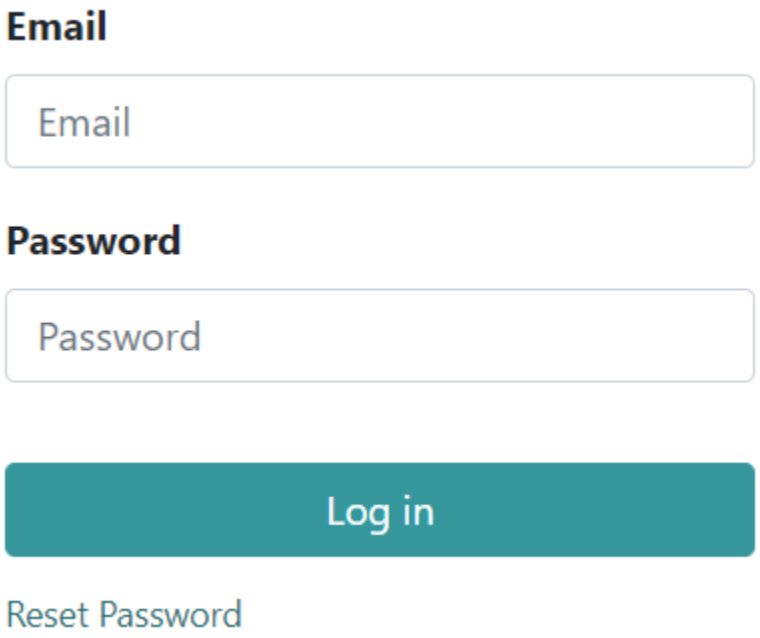


Figure 4.2.1: Admin Login Page

Settings:

User Access and Permissions:

Go to Settings > Users & Companies > Users.

Create or edit user accounts and define their access rights and permissions. Assign users to specific groups based on their roles.

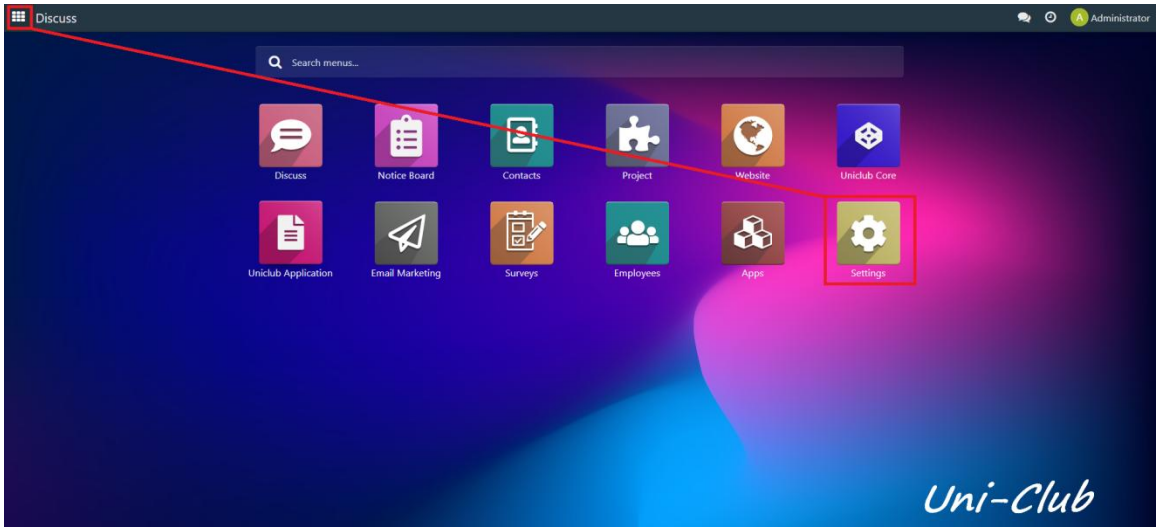


Figure 4.2.2: Settings Page

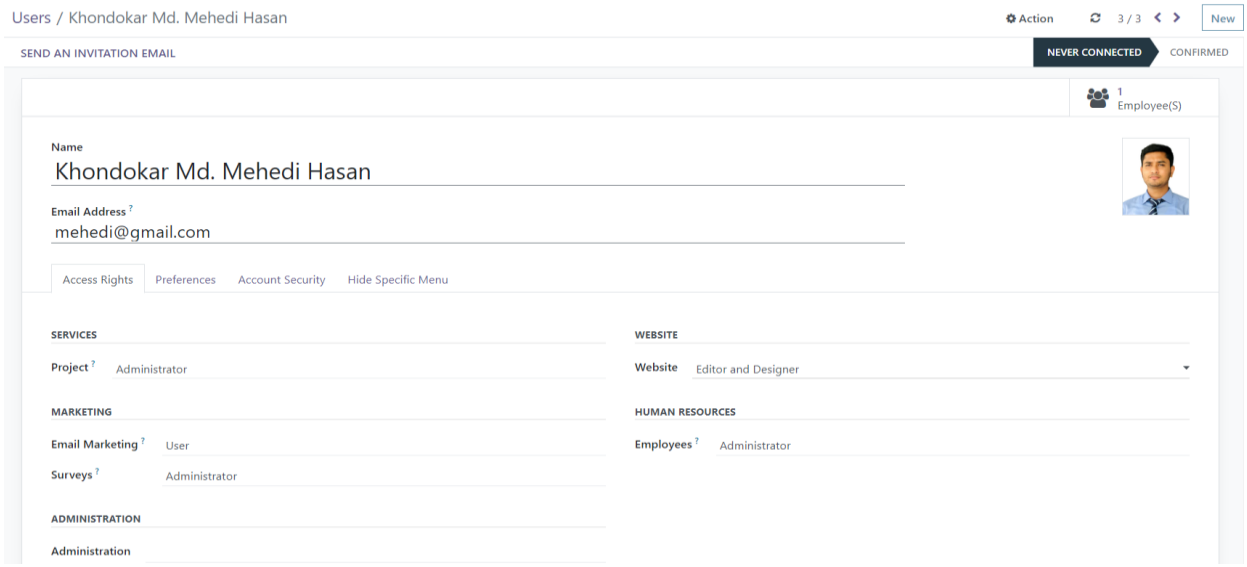


Figure 4.2.3: Users & Companies Page

Uni-Club Core:

Our first task is to create a club. Before that, the type of club should be created here. Then from here club name, type, bank account number, purpose, policy fill all these and save, a club will be created.

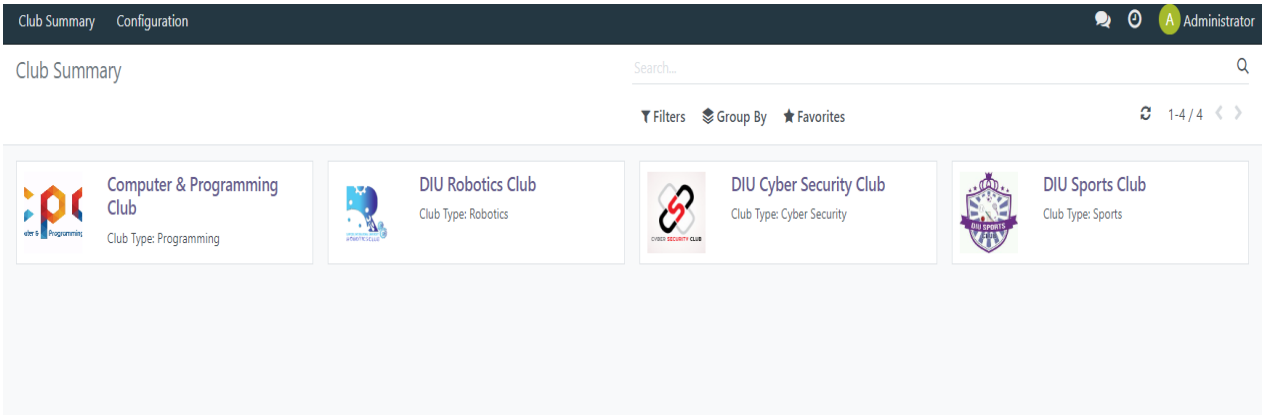


Figure 4.2.4: Uni-club core Page

Uni-Club Application:

First we need to create a session for the application. After creating the session and publishing it, it will be seen in the recruitment session of the website. Then the application. All applications will be submitted here as many members apply. If his application is approved then he can become a member of the club.

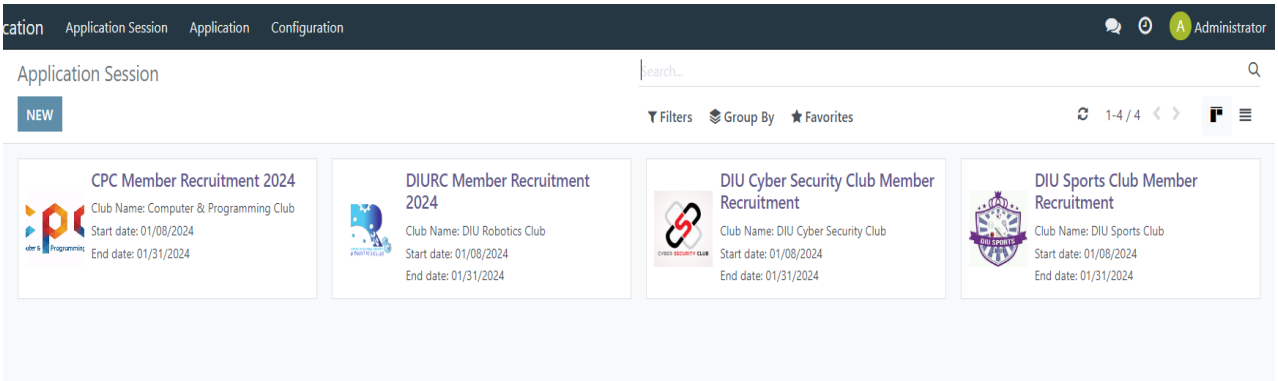


Figure 4.2.5: Uni-club Application Page

Employees:

If we go to an Employee, we can see all the club members. If you need to communicate with them, you can send messages or video calls from here and collect contact numbers.

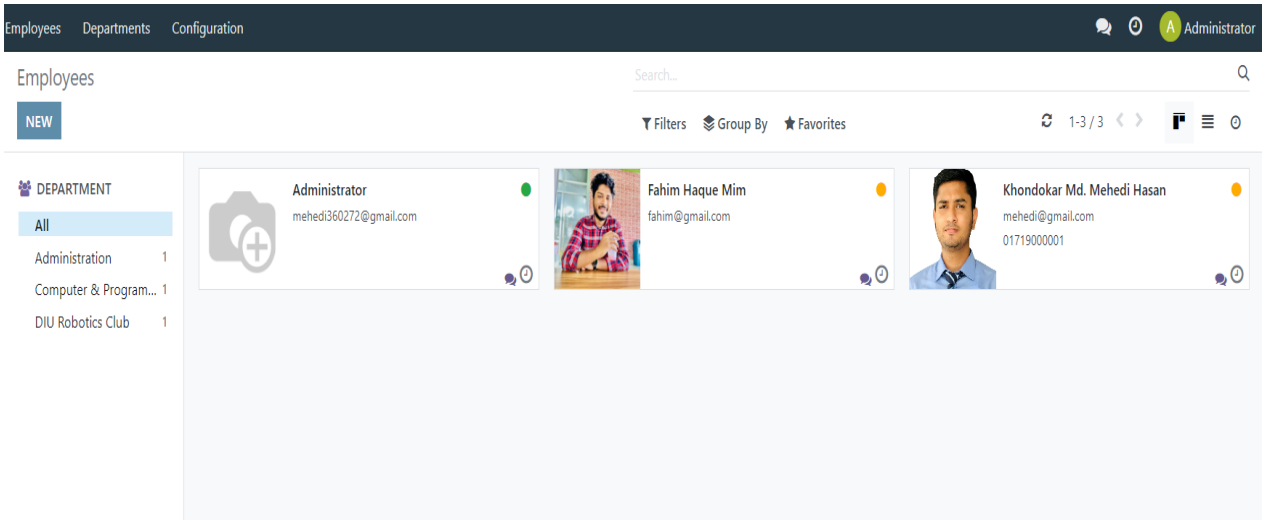


Figure 4.2.6: Employees Page

Notice Board:

Implementing a notice board feature on Uni-club can serve as an effective way to communicate important announcements, updates, and events to members.

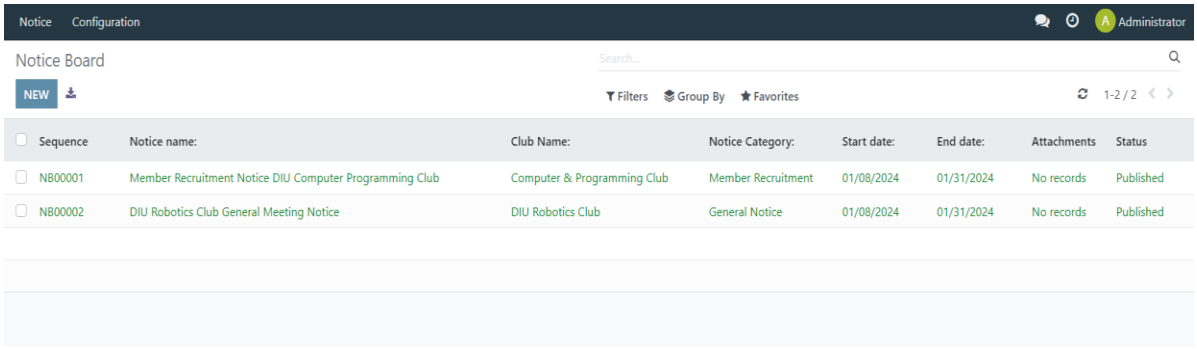


Figure 4.2.7: Notice Board Page

CHAPTER 5

Implementation and Testing

5.1 Database Implementation

Uni-club's database is implemented by designing and developing the database schema, defining associations between entities, and implementing the necessary queries for data manipulation.

There a few stages to frame a database:

- Clearly outline the scope and objectives of the database project.
- Structure the project by defining tasks and responsibilities.
- Select appropriate DBMS products based on project requirements.
- Start building the initial database framework.
- Plan and schedule the development phases.
- Conduct training sessions for project stakeholders.
- Implement and thoroughly test the database.
- Develop a detailed plan for data conversion.
- Migrate existing applications to the new database.

Table 5.1.1 Database admin_user

Column	Type	Attributes	Null	Default
name	int	null		AUTO_INCREMNT
user_name	string	null		
pass	string	null		
user_full_name	string	null		
user_email	string	null		
user_contact	test	null		
is_active	int	null		
active_from	date	null		
active_to	date	null		

Table 5.1.2: Database contact_user

Column	Type	Attributes	Null	Default
contact_no	int	null		AUTO_INCREMNT
name	varchar	null		
email	varchar	null		
number	varchar	null		
address	varchar	null		
details	varchar	null		
created_on	datetime	null		

Table 5.1.3: Database res_user

Column	Type	Attributes	Null	Default
user_id	int	null		AUTO_INCREMNT
name	string	null		
email	string	null		
phone	string	null		
image	binary	null		
password	string	null		

Table 5.1.4: Database uniclub_application

Column	Type	Attributes	Null	Default
sequence	string	null		AUTO_INCREMNT
session	string	null		
name	string	null		
application_date	string	null		
first_name	string	null		
middle_name	string	null		
last_name	string	null		
photo	binary	null		
date_of_birth	datetime	null		
gender	string	null		
email	string	null		
phone	string	null		

blood_group	string	null		
student_id	string	null		
department	string	null		
year_of_study	string	null		
expected_graduation_date	string	null		
why_join_this_club	string	null		
previous_experience	string	null		

Table 5.1.5: Database uniclub_core

Column	Type	Attributes	Null	Default
name	string	null		AUTO_INCREMNT
club_type_ids	string	null		
image	binary	null		
bank_account	string	null		
purpose_and_goal	string	null		
rules	varchar	null		

Table 5.1.6: Database notice_board

Column	Type	Attributes	Null	Default
sequence	string	null		AUTO_INCREMNT
name	string	null		
club	string	null		
notice_id	string	null		
notice_type	string	null		
notice_description	string	null		
start_date	string	null		
end_date	string	null		
attachments	string	null		
active	string	null		
note	string	null		
announcement	string	null		

5.3 Testing Implementation

I conducted initial tests on my project. The outcome and the discourse about it are reported below.

Figure 5.1.7: Test case

ID	Command	Test Method	Outcome	Status
1	Login	Black box	Access to the system	Pass
2	Create Club		Created	Pass
3	Club Type		Created	Pass
4	Application Session		Created	Pass
5	Registration		Created	Pass
6	Member Type		Created	Pass
7	Create Notice		Created	Pass
8	Notice Type		Created	Pass
9	Notice Publish		Published	Pass
10	Notice Unpublish		Unpublished	Pass
11	Log out		Logged out	Pass
12	Send Mail		Mail sent	Pass

The list below is a set of black-box test scenarios for a system meant to manage clubs and notices. The test cases cover a wide range of functionality, including login for users, club formation, club type specification, application session handling, registration, member type management, notification generation, notice type specification, notice publishing, notice unpublishing, and user logout. The black-box testing approach suggests that tests are carried out without a thorough understanding of the system's basic functions.

Each test case includes documentation on the applicable command, test method (in this example, black box), intended outcome, and current state. Particularly, all test cases passed, showing that the system successfully completes the given tasks. For example, successful login, club creation, club and notice type descriptions, application session creation, user registration, member type management, notice creation, publishing and unpublishing, logout functionality, and email sending have all been tested and found to work as expected. These test cases work together to verify that the system's critical elements are robust and meet the given requirements, resulting in a comprehensive assessment of the system's reliability and functioning.

CHAPTER 6
Conclusion and Future Scope

6.1 Discussion and Conclusion

Finally, Uni-club provides a comprehensive and user-centric solution for university club management. The system's effective implementation relies on a smartly designed front end, a strong back end, and an efficiently structured database. Its goal is to increase user involvement, streamline administrative processes, and encourage collaboration among club members.

The integration of features like real-time communication, project collaboration tools, and finance management ensures a comprehensive and effective club management platform. The notice board serves as a central location for important announcements, promoting transparency and communication within the university community.

Feedback from users is carefully considered, security measures are followed, and regular updates are provided, all of which contribute to a platform that not only fulfills present demands but also adapts to the changing requirements of university club dynamics.

6.2 Scope for Further Developments

Uni-club has enormous future growth potential, with the goal of providing users with a more varied and seamless experience. The envisioned mobile application is positioned to improve accessibility by allowing users to interact while on the go. This strategic decision is in line with modern lifestyles and caters to the university community's mobile-centric tastes.

Integration with Learning Management Systems (LMS) is a critical step towards providing a comprehensive student experience. Uni-club can provide a unified platform

by synchronizing academic and extracurricular activities, allowing for a more comprehensive picture of students' educational experiences.

In addition, the platform's dedication to encourage cooperation can be seen by its plans to boost collaboration features. The proposed capabilities, such as file updating, job prioritization, and sophisticated analytics, are intended to provide project teams and clubs with better functionality for effective communication and project management.

Uni-club considers a dynamic future while remaining responsive to user requirements and technical improvements. Uni-club is prepared to set new standards in university club management by promoting mobility, linking with academic systems, and improving collaboration tools, resulting in a lively and integrated campus community.

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