




# Club Hub

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# 01 **Problems**

# **Current University Club Management Applications Underperform**

- Managing clubs is often inefficient and disorganized, which leads to club pages not being maintained
- Difficulty coordinating events, managing/recruiting members, and communicating with other club members
- Lack of a centralized platform for the clubs to promote engagement



## 02 **Solution**



# Club Hub

- A one stop shop for managing clubs, events, and fostering community
- A centralized platform allowing for ease of access to new clubs
- Club Hub encourages club participation by facilitating multiple social networking medias



# 03a **Functionalities**



# Functionalities

- User authentication and authorization
- Create club
- Search for clubs
- Threads discussion
- Make announcements
- Manage events
- Chatting



# 03b **Architecture**





# Tech Stack

- 2-Tier DBMS architecture.
- The application communicates directly with the database on the server side (Axios API fulfills this)
- Node.js, Express and a local MySQL instance
- React.js



# 04 Major Design Decisions

# Design

- Password hashing using Bcrypt before storing in the backend to prevent password leaks
- Working images for posts via URLs loaded from the database
- Ability for the user to reply to thread replies and messages in the chatroom
- Dark mode for a more pleasant experience viewing the front end



# 05 **Demo**



# Demo Video

Demo Start from 4:55 to 12:50  
Click on the link to watch the Presentation

<https://drive.google.com/file/d/1GKz68Ypuwyq2cFkJOCKbAhzWHoQx1-Vp/view?usp=sharing>

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# 06 **Challenges**

# Challenges

- Understanding the intricacies of connecting the frontend to the backend
- Ensuring Javascript functionality and proper formatting of CSS to create a working front end
- Linking the different components together to reduce redundancy and promote future-proof code
- Ensuring that the different tables in our database allowed for the full functionality of what we planned



# 07 **Future Plans**





# Future Plans

- Have the option to delete/edit posts, threads, and delete chat rooms and clubs
- Add Admin Roles and have more complex permissions(requesting to joining a club or make a club, edit their user profile, give officer roles, and remove members)
- Update the CSS
- Quality of Life improvements



**Thank you!**