University of Colorado - Boulder

CU Boulder Clubs

Project Report
Group 3

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CSCI 3308-013

Project Description

CU Boulder Clubs is an application that can be used for exploring CU's clubs, including adding, deleting, and rating clubs. This application consists of two types of users, public users and administrators. The administrators have access to add, delete, and edit courses, while the public user will be able to browse the site, join clubs and leave club reviews.

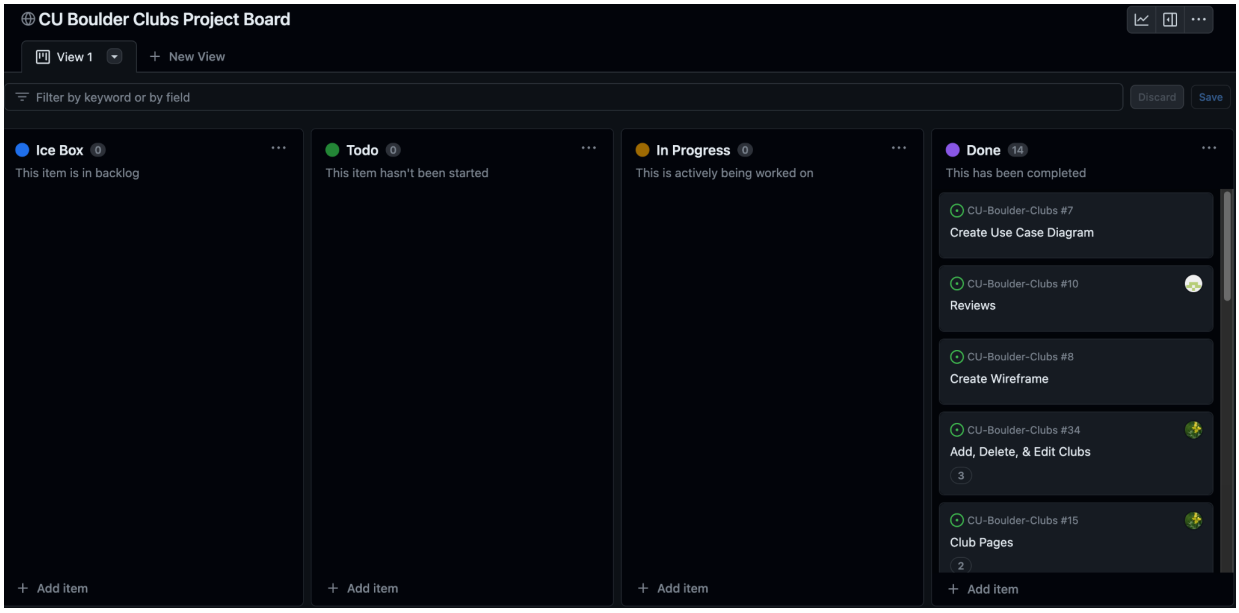
The site consists of pages, register, login, clubs directory, home/user, and additional pages for each club. Register and login are used to create a user and maintain a session. Clubs directory shows all of the clubs as a list view with options for searching and filtering, in addition to being able to toggle to a card view and see more details at a glance. Join/Drop buttons within club pages directly affect the database to reflect club affiliation. Users can see the clubs they are associated with on the home page.

In the backend we have clubs, users, reviews, and categories tables. The data stored in these tables is used to register and login (users), display general club information (clubs and categories), and load reviews for each club page (reviews).

Project Tracker

Project Tracker Link:
https://github.com/csci3308-sp23-groupproject-013-3/CU-Boulder-Clubs/releases

Project Board Link : https://github.com/orgs/csci3308-sp23-groupproject-013-3/projects/1


CU Boulder Clubs Project Board
View 1
New View
Filter by keyword or by field
Discard
Save
Ice Box 0
This item is in backlog
Add item
Todo 0
This item hasn't been started
Add item
In Progress 0
This is actively being worked on
Add item
Done 14
This has been completed
CU-Boulder-Clubs #7
Create Use Case Diagram
CU-Boulder-Clubs #10
Reviews
CU-Boulder-Clubs #8
Create Wireframe
CU-Boulder-Clubs #34
Add, Delete, & Edit Clubs
3
CU-Boulder-Clubs #15
Club Pages
2
Add item

Project Demonstration

Watch here:
https://o365coloradoedu-my.sharepoint.com/:v:/g/personal/grhu6673_colorado_edu/EeeINLKo6R9DpAHYc7OM_HYBIRI-UhVXlz8WilLR6TxQZA?e=1sz6iJ

GitHub

Repository Link : https://github.com/csci3308-sp23-groupproject-013-3/CU-Boulder-Clubs

Group Organization : https://github.com/orgs/csci3308-sp23-groupproject-013-3

Team Contributions

Grayson Hubbell

Primarily worked on developing the clubs directory. Creating the visual interface for the database of stored clubs for users to interact with. In addition, for the same page built various javascript functions to sort, filter, and search through the clubs to help users identify both specific clubs and areas of interest. Also developed card view, so users could see more in depth. Branching from the clubs directory page, created the initial outline for individual club pages, and then later implemented various node requests to enable admin add/edit/delete for clubs. In addition to minor bug fixes and testing across the board.

Ahmad Sai

Worked on designing, creating, and implementing the PostgreSQL database that holds all kinds of information about the clubs. Also worked on developing the search functionality for the clubs on a separate branch, but for the final product a more efficient and elaborate piece of code developed by my teammate was put into use, and it worked great. Created the overall directory structure of the project on top of which new files were added as the project moved through the development process. Finally, created the slides presentation and the architecture diagram to give an overview of the overall logic and functionality of the project.

Matt Bloomfield

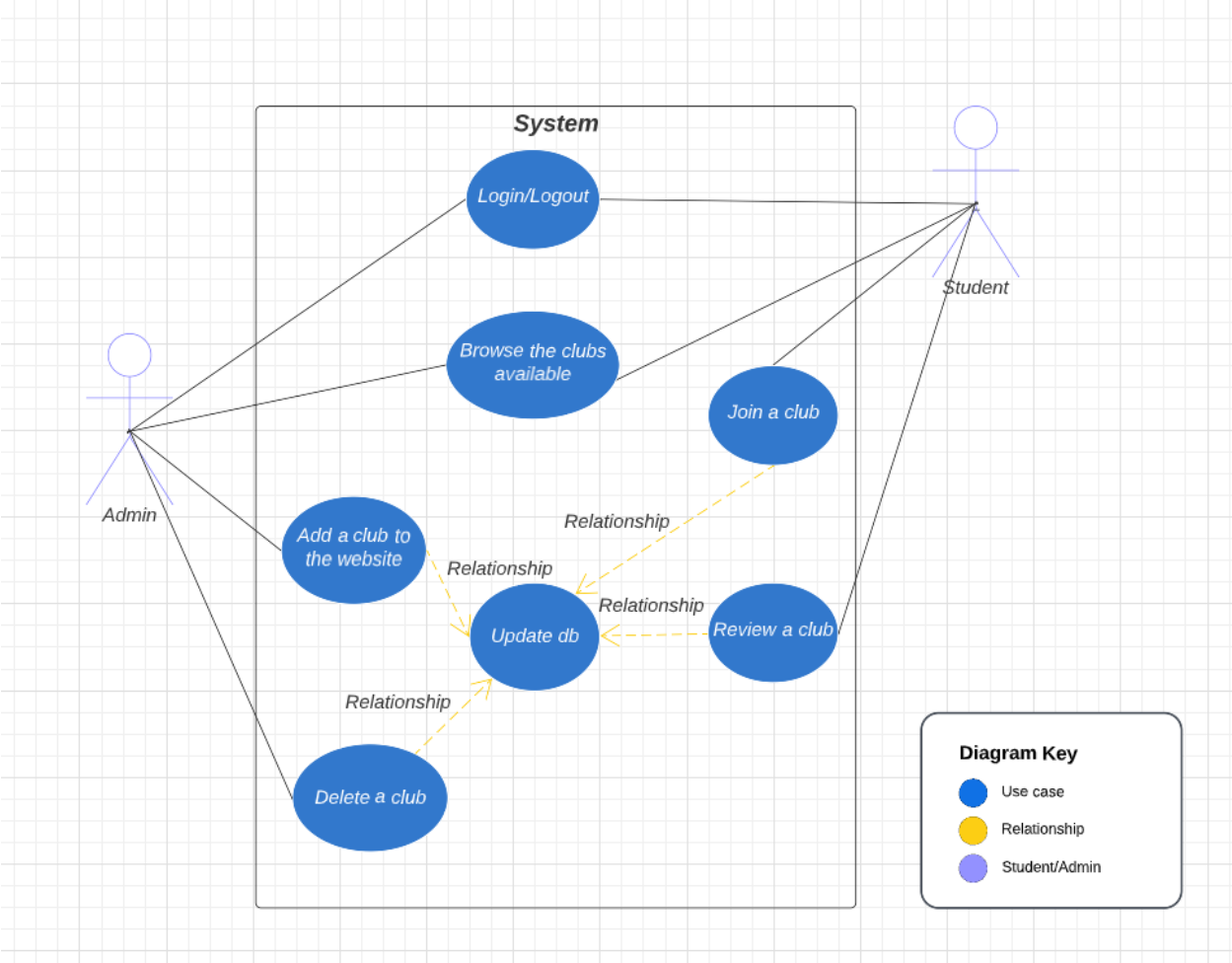
Developed the Reviews database and corresponding API's for adding and deleting reviews. Linked reviews to both the user and clubs databases in order to make it appear properly. Added a "Welcome" message with an API call and worked on improving the website's appearance by adding CSS styling, a logo, and reordering page components. I also created the functionality for joining and leaving clubs and a logout button/corresponding API to handle user management. Handled the weekly releases on github.

Victoria Lopez

Worked on setting up and designing the login and registrations. Implemented the necessary APIs to store the new users into the users database. Also designed and created the website’s home page that was also the profile page. We designed it to be like the canvas page so cards with the club’s information were implemented. Implemented all of the API calls that

dealt with users linked to certain clubs that they are a part of so that they show on the home page. Also in charge of taking notes and leading the meetings, updating the meeting logs and coordinating between team members.

Use Case Diagram



Test Results

Reviews is a feature that allows users to add a “message” bubble to be listed under the relevant club when viewed in the clubs directory. In order to post a review the user will be required to navigate to their chosen club, find the review button underneath, input text, and click submit. Then the review will be ‘posted’ and appear under the

relevant club. The test data will be testing the creation of a review and deletion of a review. This will be done within a UAT testing environment. The UAT will be done by the group members. Test by inserting a review under a club, a successful test result would be if the message appears below the club. The results of this test were successful. We are able to add a review to the clubs that we are a part of and they remain published on the page.

Adding/deleting a club is a function that allows users to add a club to the clubs directory. For example, Madison, the president of the new Robotics Club at CU wants more people to join her club in order to complete her goal of making a functional robotic arm. She wants to add a description of her club to the new and improved CU Boulder Club Website so that students can get up-to-date information on what is going on in her club and the club meeting calendar. In order to do this Madison has to register and sign in with her credentials as an admin. As an admin she will be able to click a button “Add a Club”, which will open a form that she will need to fill with all the club information. Then she will click the submit button. The test data will be done through adding a club, checking that it is maintained after logout/login. A positive test result would be if the club is created and successfully maintained. The test results of this particular test were positive. We were able to add a club and edit it as an admin.

Sign up is a feature that allows users to join clubs and add them to their home/profile page. The test data will be testing the functionality of signing up to a club. We will also test corner cases, such as signing up for a club that the user is already a part of. This will be done within a UAT testing environment. The UAT will be performed by the group members. A successful test for signing up for a club and joining it should result in the register button for the club being grayed out, as well as the club showing up in the list of clubs the user is registered in. The test was successful but we switched our original idea (have the admin accept or deny the student entry to the club) to just having the user join a club. Once the user joins the club the “Join” button becomes a “drop” button to drop the club.

Deployment

Our app was deployed using the same method as in lab 13 on Azure cloud using docker running on a Ubuntu virtual machine. The link was recitation-013-03.eastus.cloudapp.azure.com but has since been **taken down** so as to not waste any credits. The website was also demoed through this link during the presentation.

QR Code for quick mobile access: