www.RateAClub.com

RAD Document

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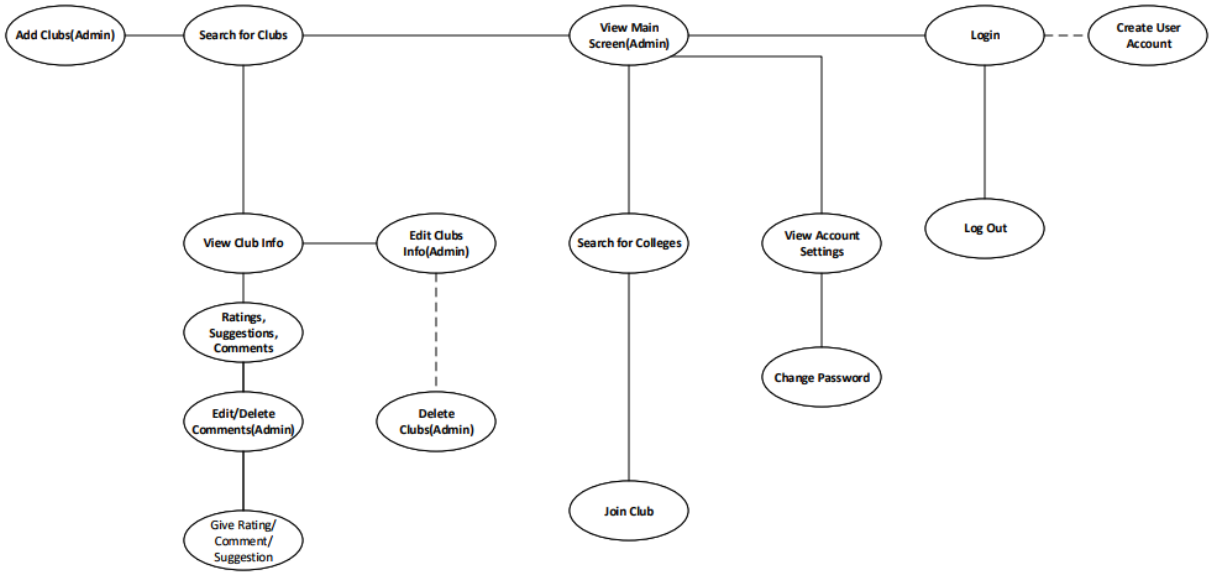
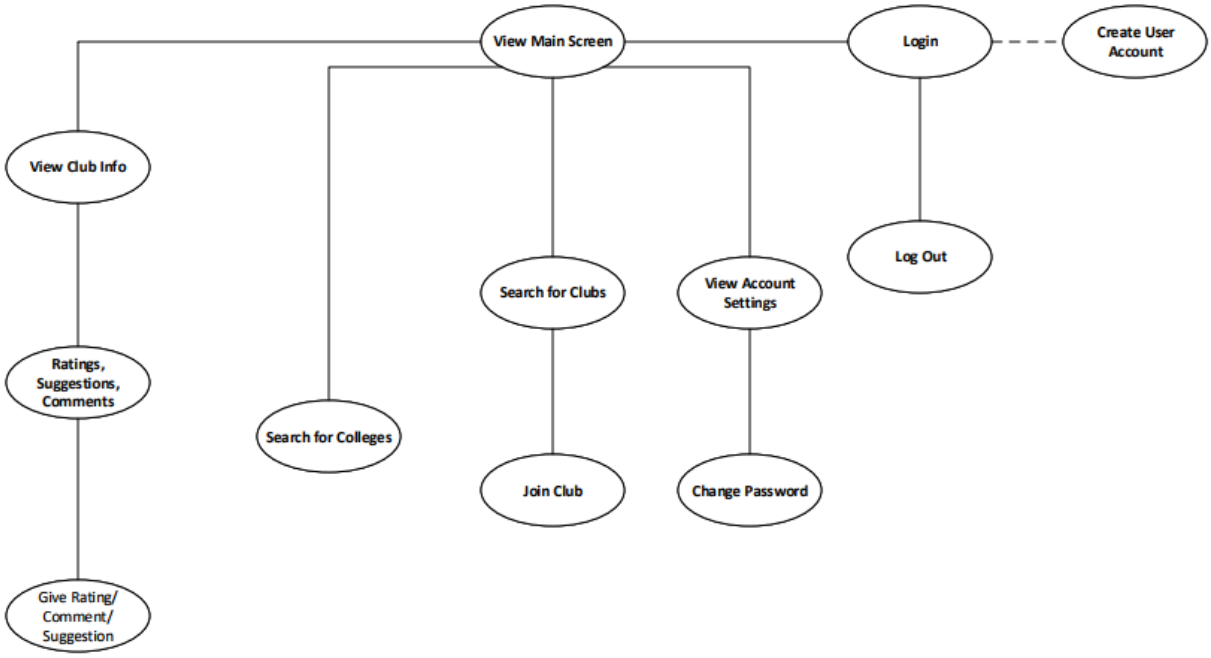
Diagrams

Admin User:



Regular User:



Use Cases:

Use Case: View Main Screen

Name of Use Case: *View Main Screen*

Primary Actor: User

Goal in Context: Create a landing page that a user will see when first opening webpage.

Preconditions: None

Trigger: Navigating to the site.

Scenario:

1. Website loads page consisting of header featuring a Log in/out button and a search bar.
2. Website retrieves top 5 rated clubs from firebase server then populates a list
3. User presses Log In button (invokes *Log In* use case)
4. User presses Log Out button (invokes *Log Out* use case)
5. User enters college name into search bar, as the user types a drop down menu appears with potential autofill options (invokes *Search for College* use case).
6. User enters club name into search bar as the user types a drop down menu appears with potential autofill options (invokes *Search for Club* use case).
7. Images of the colleges associated with the top five clubs are displayed next to the club name and rating.

Exceptions: None

Priority: High

When available: Week 1

Frequency of Use: High

Use Case: Create Account

Name of Use Case: *Create Account*

Primary Actor: User

Goal in Context: Create account use case is to provide further capabilities within the website i.e. leave comments and suggestions, rate clubs.

Preconditions: User is not logged in.

Trigger: The user selects create account from the header.(see *View Main Screen* use case)

Scenario:

1. Website displays seven textboxes with the labels (Username, email, password, resubmit password, first name, last name and name of institution [optional])
2. User enters all required information.
3. Website checks that username does not already exist and that the passwords match and meet the set requirements (invokes *Change Password* use case).
4. Website sends email to the email address entered to be verified.
5. User clicks link in the email.
6. Website loads confirmation page then redirects the user to the main page and logs the user in.

Exceptions:

1. Email is invalid.
    a. Solution: “This email is invalid.”
2. Passwords do not match.
    a. Solution: “Your passwords did not match.”
3. Passwords do not meet the requirements.
    a. Solution: “You did not meet the requirements for a password. Please include at least eight characters, an uppercase letter, a special character, and a number.”

Priority: High

When available: Week 2

Frequency of Use: High

Use Case: Log in

Name of Use Case: *Log in*

Primary Actor: User

Goal in Context: Provide a simple user interface for users and admins to log in to their accounts.

Preconditions: The user must already have an account.

Trigger: Click on the login button from the header (See *View Main Screen* use case).

Scenario:

1. Website displays two text boxes labeled (username and password).
2. User enters correct username and password.
3. Website validates credentials against firebase database.
4. Website logs user in and loads mainpage (invokes *View Main Screen* use case).

Exceptions:

1. Username is entered incorrectly.
    a. Solution: “You entered an invalid username.”
2. Password is entered incorrectly
    a. Solution: “You didn’t enter your password correctly.”

Priority: High

When Available: Week 1

Frequency of Use: High

Use Case: Log out

Name of Use Case: *Log out*

Primary actor: User

Goal in Context: User may log out of their session while on the website.

Preconditions: Must have an account, and must be already logged in.

Trigger: The user presses the logout button (see *View Main Screen* use case).

Scenario:

1. Website logs user out and loads main page (invokes *View Main Screen* use case).

Exceptions: None

Priority: Medium

When Available: Week 1

Frequency of Use: Medium

Use Case: View Account Settings

Name of Use Case: *View Account Settings*

Primary Actor: Logged In User

Goal in Context: Allows the user to see their account information such as email and password.

Preconditions: The user has an account. The user must be logged in.

Trigger: The user clicks the "User Settings" link (see *View Main Screen* use case).

Scenario:

1. Website loads a page which shows their name, user name and email address, as well as the "Change Password" and "Delete Account" buttons.
2. If the user presses the "Change Password" button (invokes *Change Password* use case)
3. If the user presses the "Delete Account" button, which allows the user to delete their account from the server, they are shown a confirmation prompt. That reads "Are you sure you want to delete your account?" "Yes" or "No"
4. If "Yes" is selected, then the account is deleted and the user is returned to the main screen (invokes *View Main Screen*).

Exceptions: None

Priority: High

When Available: Week 5

Frequency of Use: High

Use Case: Change Password

Name of Use Case: *Change Password*

Primary Actor: Logged In User

Goal in Context: Allows the user to change their password.

Preconditions: The user has an account. The user must also be logged in.

Trigger: The user clicks the "Change Password" button (see *View Account Settings).*

Scenario:

1. The user gets taken to a page with editable text boxes with the labels "Current Password", "New Password" and "Confirm New Password" and a "Submit" button.
2. A line of text stating that they need to have a minimum of eight characters, with a digit, capital letter, and special character will appear under the "New Password" box.
3. The user enters their current password and their new password twice into the appropriate fields.
4. The user presses submit. And the website verifies passwords are the same and satisfies the requirements and updates the password in the database.
5. There will then be a confirmation prompt that states "You have changed your password." The website places the user back on the *View Account Settings* page (invokes *View Account Settings* use case)

Exceptions:

1. The user could enter their current password incorrectly.
    a. Solution: "You didn't enter your password correctly."
2. The user could enter something different in the new password, and confirm new password boxes.
    a. Solution: "Your passwords did not match."
3. The password did not meet the requirements.
    a. Solution: "You did not meet the requirements for a password. Please include at least eight characters, an uppercase letter, special character, and a number."

Priority: Medium

When Available: Week 7

Frequency of Use: Low

Use Case: View Club Page

Name of Use Case: *View Club Page*

Primary Actor: User

Goal in Context: View information about the club and view all ratings/comments/and suggestions for that club.

Preconditions: None

Trigger: User selects club from search result list (see *Search for Clubs*, *Search for Colleges*, or *View Main Screen* use cases)

Scenario:

1. Text field with the club name is displayed.
2. Button labeled "Leave Comment/Rating" (invokes *Add Rating/Comment/Suggestion* use case). (Disabled if not logged in).
3. Text field with the label "About" with a button labeled "Expand."
    a. When that button is clicked, all the club information (associated college,club description, contact email, meeting times, meeting locations, image, video and president's name) is displayed. The button is relabeled "Collapse."
4. Average rating is displayed graphically by stars.
5. Text field with the label "All Ratings" with a button labeled "Expand."
    a. When the button is clicked, all the comments with their respective ratings are displayed in a block format. The button is relabeled "Collapse." (If user is an admin every block has an edit button [invokes *Edit/Delete Comments*]. If the user owns the comment the block has an edit button [invokes *Edit/Delete Comments*].)

Exceptions:

1. Club has no review entries.
    a. Solution: "Be the first person to comment on this club."

Priority: High

When Available: Week 4

Frequency of Use: High`

Use Case: Edit/Delete Comments

Name of Use Case: *Edit/Delete Comments*

Primary Actor: Logged in User

Goal in Context: Allow user to edit or delete comments.

Preconditions: User has previously entered a comment, unless user is an admin.

Trigger: User clicks edit button. (see *View Club Page* use case)

Scenario:

1. User sees a textbox containing their previous comment.
2. User edits their previous comment.
3. User clicks button labeled “save” and the website updates the comment in the database.
4. Admin clicks button labeled “delete” to delete comment because he/she cannot edit it to an acceptable standard for that college.
5. Admin clicks button labeled “edit” because the comment violates college guidelines.
6. Admin edits the comment so that it is within college guidelines.
7. Admin clicks button labeled “save” and the website updates the comment in the database.

Exceptions: None

Priority: Medium

When Available: Week 4

Frequency of Use: Medium

Use Case: Add Rating/Comment/Suggestion

Name of Use Case: *Add Rating/Comment/Suggestion*

Primary Actor: Logged in User

Goal in Context: User wants to leave a comment/rating/suggestion.

Preconditions: Haven't left previous rating/comment/suggestion for that club within one year.

Trigger: User clicks "Add a rating and comment" or "Add a suggestion" or "Add a rating".

Scenario:

1. Website displays a box that the user can write out a comment/suggestion, or give a rating.
2. User types a comment/suggestion into the text box, and clicks the rating they want to leave for the club.
3. User clicks button labeled "save" that confirms that they want to leave the rating/comment/suggestion that they entered.
4. Inserts comment into the database table.
5. The user receives a confirmation message: "Your comment is added successfully."

Exceptions:

1. If user enters a comment, but not a rating.
    a. Solution: "You cannot enter a comment without leaving a rating."

Priority: High

When Available: Week 2

Frequency of Use: High

Use Case: Search

Name of Use Case: *Search*

Primary Actor: User

Goal in Context: Allow users to search for clubs and colleges.

Preconditions: Text has been entered in the search bar (see *View Main Screen* use case).

Trigger:

1. User clicks “search” button (see *View Main Screen* use case), or presses “enter” key, or clicks on a suggested search.

Scenario:

1. User receives list of results with club or institution name with Club name, College, 100 characters of description and retrieved from database.
2. User clicks on a result and gets sent to its page.(invokes *View Club Page* or *View College Page* use case)

Exceptions:

1. There are no instances of the intended search.
    a. Solution: “Search not found.”
2. User misspells the intended search.
    a. Solution: “Search not found.”
3. The database that site will search through is empty.
    a. Solution: “There are no clubs in the database at this time. Try again later.”

Priority: Medium

When Available: Week 3

Frequency of Use: High

Use Case: Add Club

Name of Use Case: *Add Club*

Primary Actor: Admin

Goal in Context: Allow admins to add a club to the database

Preconditions: Logged in

Trigger: Admin clicks the Add Club button (see *View Main Screen* use case).

Scenario:

1. Website displays Add Club page with a collection of blank, labelled fields.
2. Admin enters club name into club name field (String).
3. Admin enters contact email into email field (String).
4. Admin enters club information into club info fields (String).
5. Admin enters additional info (Image, video link, President's name, meeting times and location, tags) into appropriate fields (Links and String).
6. College field is populated by college associated with the admin account
7. Admin clicks Add Club to database button.
8. Website creates new entry in club table of database and enters all of the information in the fields, returns admin to main page.

Exceptions:

1. Admin clicks button without entering anything into club name, college, or contact fields.
    a. Solution: "You must enter something in the fields.", and reloads Add Club page
2. Admin enters club name that already exists in that college.
    a. Solution: "This club already exists", and reloads Add Club page.
3. There is an error when adding club to database because it could not be reached.
    a. Solution: "There was an error when reaching the database. Please try again.", reloads Add Club page.

Priority: High

When Available: Week 5

Frequency of Use: Medium

Use Case: Express Interest Clubs

Name of Use Case: *Express Interest*

Primary Actor: Logged in User

Goal in Context: Allow users to Express Interest clubs

Preconditions: Not admin

Trigger: Clicks “Express Interest” button (see *View Club Page* use case)

Scenario:

1. Automated email gets sent to the club’s point of contact (email entered at account creation) asking to Express Interest with user’s first and last name.
    a. Contact updates are left up to club.
2. Email includes sender’s email.
3. Sender receives confirmation.
4. Interest can be expressed every 3 days to the already expressed club.

Exceptions: None

Priority: Medium

When Available: Week 6

Frequency of Use: Medium

Use Case: Edit Club Info

Name of Use Case: *Edit Club Info*

Primary Actor: Admin

Goal in Context: Allow admins to change the displayed information about a club

Preconditions: Club must exist in database, admin must know club name as it is in the database

Trigger: Admin clicks the Edit Club button (see *View Club Page* use case)

Scenario:

1. Website displays Edit Club page with collection of editable fields that contain the currently stored values in the database.
2. Admin enters the new club name (if any) into the club name field (String).
3. Admin enters new contact email (if any) into contact field (String).
4. Admin enters new club info (if any) into club info field (String).
5. Admin enters new video, image, president name, meeting time and location, or tags info (if any) into appropriate fields (Links and Strings).
6. Admin clicks "Delete" button at bottom of page.
7. Website prompts a confirmation dialogue: "Are you sure? Yes or No"
8. Admin pressed yes and the website deletes club from database.
9. Admin clicks "Apply" button.
10. Website updates the club entry in the database with the information in the fields, returns admin to main screen.

Exceptions:

1. There is an error when updating the database.
    a. "There was an error when reaching the database. Please try again." and reloads Edit Club Info page

Priority: Medium

When Available: Week 6

Frequency of Use: Medium

General Error Messages (Apply to all use cases)

Site hosting is down.

"404 Site Not Found"

Database connection is invalid.

"Database connection failed. Please refresh the page."

Specific Error Messages

When creating an account the user enters an invalid email.

"This email is invalid." (See *Create Account*)

When a user tries to change their password, or is creating an account and the passwords don't match.

"Your password did not match." (See *Create Account, Change Password*)

The users passwords did not meet the requirements.

"You did not meet the requirements for a password. Please include at least eight characters, an uppercase letter, a special character, and a number." (See *Create Account, Change Password*)

The user tries to login but enters the username incorrectly.

"You entered an invalid username." (See *Log in*)

The user enters their password incorrectly.

"You didn't enter your password correctly." (See *Log in, Change Password*)

If the user enters a comment, but not a rating.

"You cannot enter a comment without leaving a rating." (See *Add Rating/Comment/Suggestion*)

There are no search results found, or the user misspells the intended search.

"Search not found." (See *Search*)

The database that the site searches through is empty.

"There are no clubs in the database at this time. Try again later." (See *Search*)

Admin Specific Error Prompts

The admin tries to enter information but doesn't enter information into the fields.

"You must enter something in the fields." (See *Add Club*

The admin enters a club name that already exists for the college.

"This club already exists." (See *Add Club*

There is an error when connecting the database.

“There was an error when reaching the database. Please try again.” (See *Add Club*, *Edit Club Info*)

Other Dialog Prompts

The club has no reviews or comments.

“Be the first person to comment on this club.” (See *View Club Page*)

If a user tries to delete their account.

“Are you sure you want to delete your account?” “Yes or No” (See *View Account Settings*)

When a comment is added successfully.

“Your comment has been added.” (See *Add Rating/Comment/Suggestion*)

When a user has confirmed their email.

“Your email address has been confirmed.” (See *Create Account*)

Glossary:

Account: a username, password, email address, and privileges associated with a user

Administrator (Admin): a user that has administrative privileges that include being able to add, edit, and delete clubs and the associated information in addition to the abilities of a standard user

Club Description: the section where miscellaneous information not covered by other fields is placed in the club entry

Comment: a section where a logged user may type information regarding their rating of a club, viewable after searching

Credentials: the username, password, and email address used to validate an account by comparison with the database

Logged User: a user that has created and logged into an account, allowing them to leave ratings, comments, and suggestions in addition to the abilities of a standard user

Password: a String with at least 8 characters (one being in capital case and another being a special character and one being a number) used to authenticate and authorize actions

Rating: a integer between 1 and 5 used to describe the quality of a club, viewable after searching; also known as “stars”

Suggestion: a section where a logged user can provide solutions to perceived problems with a club as part of a rating, viewable by search

User: a person using the application, which has the ability to search for clubs and to view ratings, comments, and suggestions

Username: a user-designated identifier associated with an account, used to authenticate log in attempts and show which user left a particular rating

Functional Requirements

Create Account

Delete Account

Log in

Log Out

Rate Club

Change password

View Account Settings

Edit/View rating/comment/suggestion

Search for Club/Colleges

View Club Information

Express Interest

Admin Only:

Delete Club

Edit Club

Add Club

Delete Comment

Nonfunctional Requirements

Database on a server

Encryption

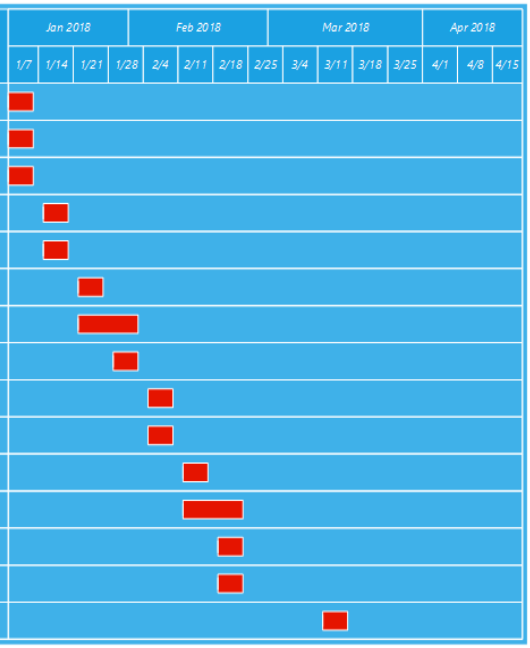
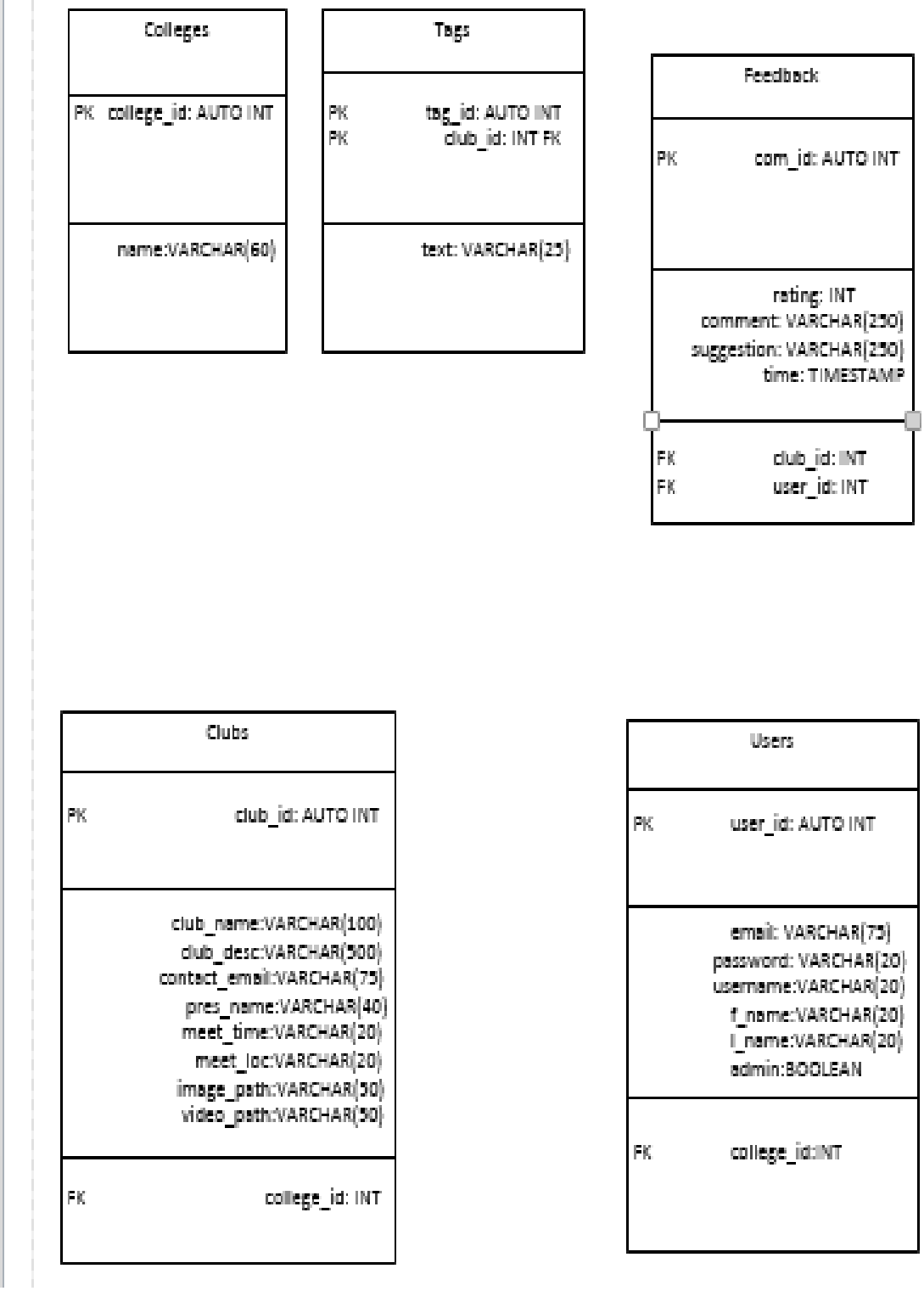
Email verification

Password requirements

Password verification (like if the two passwords match when creating an account)

Gantt Chart

ID	Use Case	Start	Finish	Duration
1	Log In	1/8/2018	1/12/2018	1w
2	Log Out	1/8/2018	1/12/2018	1w
3	View Main Screen	1/8/2018	1/12/2018	1w
4	Create Account	1/15/2018	1/19/2018	1w
5	Give Rating/Comment/Suggestion	1/15/2018	1/19/2018	1w
6	View Ratings/Suggestions/Comments	1/22/2018	1/26/2018	1w
7	Search	1/22/2018	2/2/2018	2w
8	Edit/Delete Comments	1/29/2018	2/2/2018	1w
9	View Account Settings	2/5/2018	2/9/2018	1w
10	Add Club	2/5/2018	2/9/2018	1w
11	Express Interest	2/12/2018	2/16/2018	1w
12	Edit Club Info	2/12/2018	2/23/2018	2w
13	View Club Info	2/19/2018	2/23/2018	1w
14	Change Password	2/19/2018	2/23/2018	1w
15	Reset Password	3/12/2018	3/16/2018	1w



Database Table Design