

**[www.RateAClub.com](http://www.RateAClub.com)**

**RAD Document**

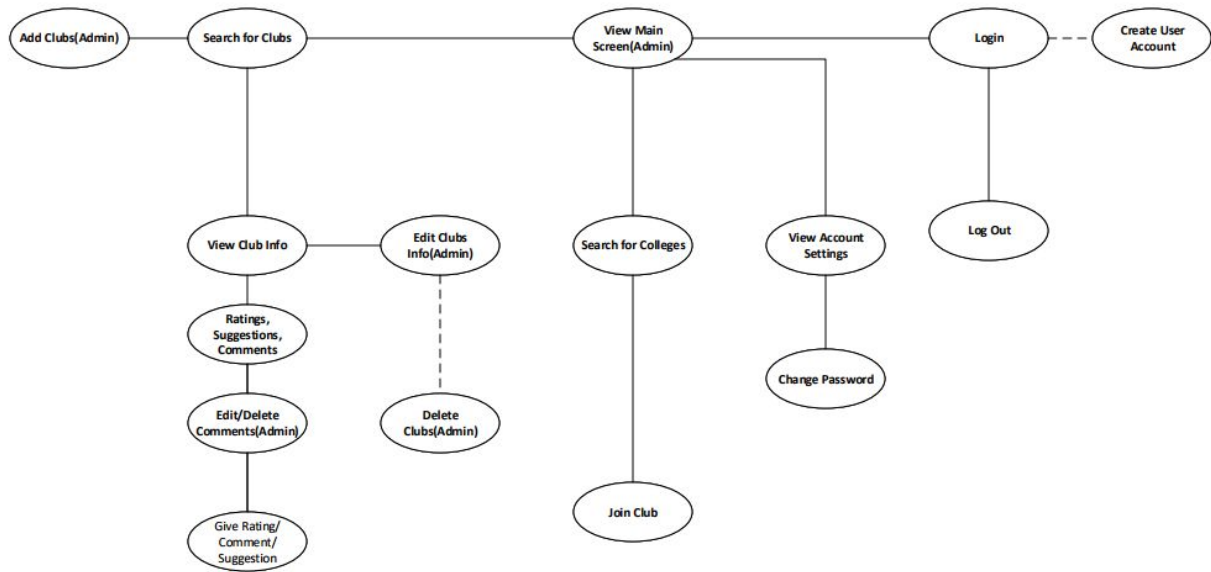
**Brian Pigford, Max Cardillo, Joseph Hays, Dylan Weigartz, Chad Lenz, Emmanuel Maku,  
Nick Myers.**

## Table of Contents

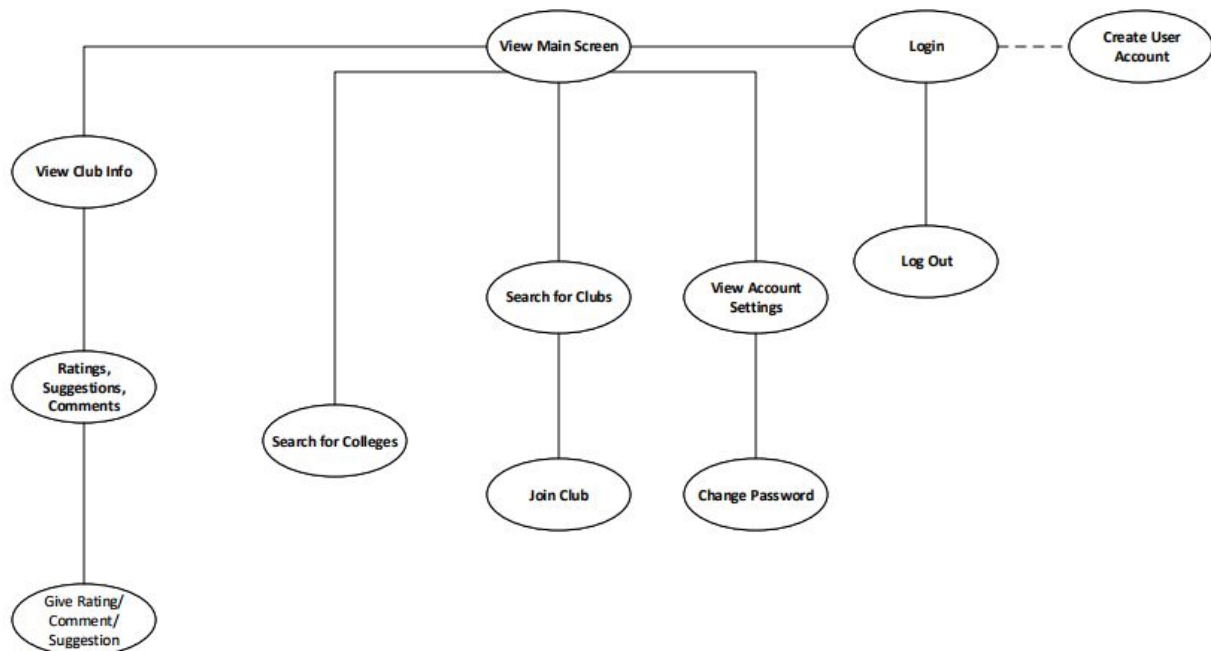
<b>Use case Diagrams.....</b>	<b>pg 3</b>
<b>Use cases:</b>	
<b>View main screen.....</b>	<b>pg 4</b>
<b>Create account.....</b>	<b>pg 5</b>
<b>Log in.....</b>	<b>pg 7</b>
<b>Log out.....</b>	<b>pg 8</b>
<b>View Account Settings.....</b>	<b>pg 9</b>
<b>Change Password.....</b>	<b>pg 10</b>
<b>Search.....</b>	<b>pg 12</b>
<b>View Club Page.....</b>	<b>pg 13</b>
<b>Edit/Delete Comments.....</b>	<b>pg 15</b>
<b>Add Rating/Comment/Suggestion.....</b>	<b>pg 16</b>
<b>Add club.....</b>	<b>pg 17</b>
<b>Express Interest.....</b>	<b>pg</b>
<b>19</b>	
<b>Edit Club Info.....</b>	<b>pg 20</b>
<b>General Error Messages.....</b>	<b>pg 21</b>
<b>Specific Error Messages.....</b>	<b>pg 21</b>
<b>Admin Specific Error Messages.....</b>	<b>pg 21</b>
<b>Other Dialog Prompts.....</b>	<b>pg 22</b>
<b>Glossary.....</b>	<b>pg 23</b>
<b>Functional Requirements.....</b>	<b>pg 24</b>
<b>Non-Functional Requirements.....</b>	<b>pg 24</b>
<b>Gantt Chart.....</b>	<b>pg 25</b>
<b>Database Design Tables.....</b>	<b>pg 26</b>

## 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 “Login” button and a search field if user is not logged in, the user’s username and a search field if the user is logged in..
2. Website retrieves top 5 rated clubs from firebase server then populates a list.
3. Images of the colleges associated with the top five clubs are displayed next to the club name and rating.
4. User presses “Login” button under the “Login” drop-down menu (invokes *Log In* use case can invoke *Change Password* use case and *Create Account* use case)
5. User presses “Logout” button in username drop-down menu (invokes *Log Out* use case can invoke *View Settings* use case).
6. 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).
7. 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).

**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 and email do not already exist and that the passwords match and meet the set requirements (invokes *Change Password* use case).
4. Website sends email address to the server. Server sends email to email address to be verified.
5. User clicks link in the email.
6. Database is updated with confirmed status.
7. Website loads confirmation page then redirects the user to the main page and logs the user in.

**Exceptions:**

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

4. Email already exists.

- a. Solution: Display in red text under the email field “The email entered already exists.”

**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 in the Login drop-down menu (See *View Main Screen* use case).

**Scenario:**

1. Website displays two text boxes labeled (Username and Password).
2. Website displays buttons labeled (Login, Forgot Password, Create Account).
3. User enters a correct username and password.
4. If user clicks “Login” button. Website validates credentials against firebase database.  
Website logs user in and loads mainpage (invokes *View Main Screen* use case).
5. If user clicks forgot password button (invokes *Change Password* use case).
6. If user clicks create account button (invokes *Create Account* use case).

**Exceptions:**

1. Username is entered incorrectly.
  - a. Solution: Display in red text under the username field “You entered an invalid username.”
2. Password is entered incorrectly
  - a. Solution: Display in red text under the username field “You didn’t enter your password correctly.”
3. Account has not been verified yet.
  - a. Solution: Display alert to the user “Your account hasn’t been verified yet.”

**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 in the username drop-down menu(see *View Main Screen* use case).

**Scenario:**

1. Website displays buttons labeled (Logout, View Settings)
2. If user clicks “Logout” button. Website logs user out and loads main page (invokes *View Main Screen* use case).
3. If user clicks “View account settings” button (invokes *View Account Settings* 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: Display in red text under password field “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: Display in red text under the password field “Your passwords did not match.”
3. The password did not meet the requirements.

- a. Solution: Display in red text under the password field “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: 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. Website sends search text to server.
2. User receives list of results with club or institution name with Club name, College, 100 characters of description and retrieved from database.
3. 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: Display in results “Search not found.”
2. User misspells the intended search.
  - a. Solution: Display in results “Search not found.”
3. The database that site will search through is empty.
  - a. Solution: Display alert to user “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: 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. Button labeled “Express Interest” (invokes *Express Interest* use case). (Disabled if not logged in).
4. 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.”
  - b. If user is an admin, an “edit” button will be visible (invokes *Edit Club Info* use case)
5. Average rating is displayed graphically by stars.
6. 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 a delete 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: Displays message to user in comment area “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 that is their own, 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. Or User clicks button labeled “delete” to delete comment because he/she wants to.
5. Admin clicks button labeled “delete” to delete comment because he/she cannot edit it to an acceptable standard for that college.

**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 "Leave Comment/Rating" button (see *View Club Page* use case).

### **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 save the rating/comment/suggestion, and or rating 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: Display alert to user "You cannot enter a comment without leaving a rating."

**Priority:** High

**When Available:** Week 2

**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 fields labeled club name, email, club info, club image, club video link, club president, club meeting times and location, and club tags.
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 automatically set to college name associated with 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: Displays alert to user "You must enter something in the fields.", and reloads Add Club page
2. Admin enters club name that already exists for the college.
  - a. Solution: Display alert to user "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: Display alert to the user "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

**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. Interest can be expressed every 3 days to the already expressed club.
2. An email automatically gets sent to the club’s point of contact (email entered at account creation) with user’s first and last name.
3. Email includes sender’s email.
4. Sender receives confirmation.

**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 (labeled club name, email, club info, club image, club video link, club president, club meeting times and location, and club tags) 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. If Admin clicks “Delete” button at bottom of page.
  - a. Website prompts a confirmation dialogue: “Are you sure? Yes or No”
  - b. Admin pressed yes and the website deletes club from database.
7. If Admin clicks “Apply” button.
  - a. 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. Solution: Display alert to the user “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

**Alert:** a window that appears at the top of the page with a message and a button that must be pressed to continue

**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**

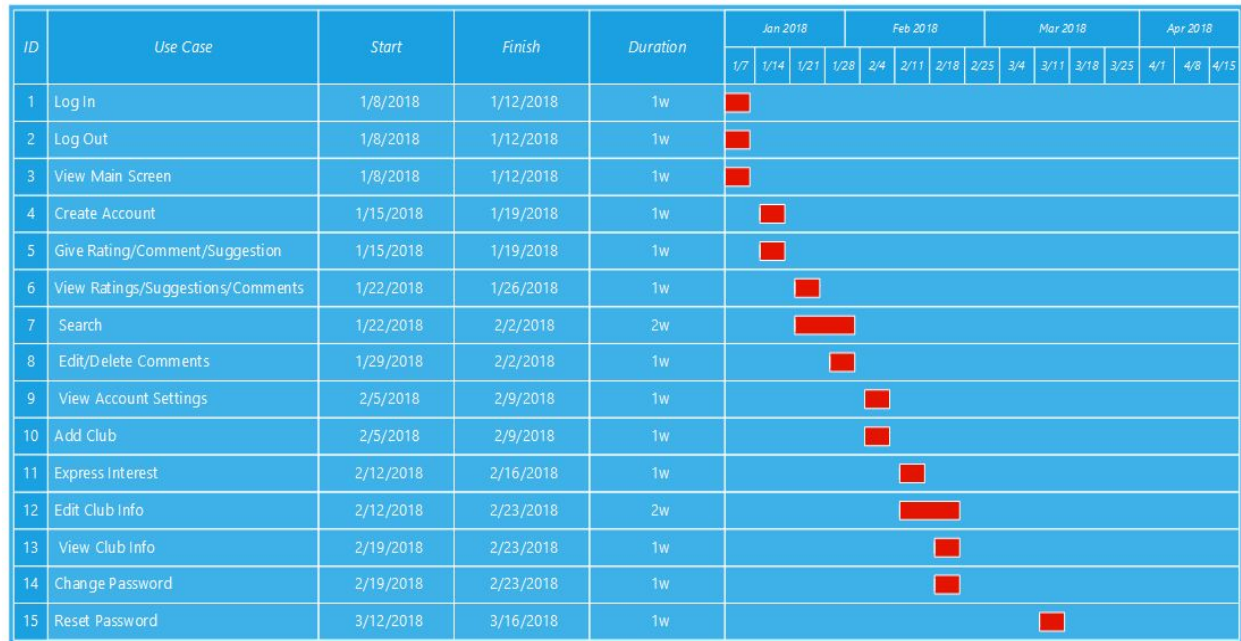
Create Account  
Delete Account  
Log in  
Log Out  
Rate Club  
Change password  
View Account Settings  
Edit/View rating/comment/suggestion  
Search for Club/Colleges  
View Club Information  
Express Interest  
**Admin Only:**  
Delete Club  
Edit Club  
Add Club  
Delete Comment

## **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



## Database Table Design

