

**SW Engineering CSC648/848 Summer 2022**

**GatorShare**

**Milestone 03**

**Team 01, Section 01**

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**History:**

<b>M3 Submitted:</b>	<b>July 19, 2022</b>
<b>M3 Revised:</b>	
<b>M2 Submitted:</b>	<b>July 07, 2022</b>
<b>M2 Revised:</b>	<b>July 18, 2022</b>
<b>M1 Submitted:</b>	<b>June 21, 2022</b>
<b>M1 Revised:</b>	<b>July 15, 2022</b>

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# Data Definitions V3

**User:** Any person who uses the web application.

- **Unregistered User/General User:**

A User who has not signed up or logged into the application. This User may only browse our application. When browsing, this User is able to access all posts and comments. This User cannot create posts, post comments, like a post, send messages or receive notifications. This User does not have a personal profile. This User is not required to log in/register, but must register in order to communicate with other Registered Users.

- **Registered User/Approved User:**

A Registered User is a User that has created an account and has signed in. The User needs to register with the specifically required information, notably their name and email address. A registered user can be a Student, Tutor or Professor. This User must create a password and accept our application's terms of service. This User is allowed to fully utilize the platform (besides Admin privileges). This User can browse and search through the website. This User can also create posts, delete posts, comment on posts, receive notifications, and like/unlike posts (one button). This User has access to a personal profile where they can view all their created posts, and delete a post.

- **Admin:**

Admin Users are solely restricted to the creators of the web application. These Users are able to fully utilize the platform. They can monitor all Posts, Comments, and Registered Users. They have the privilege to delete posts, comments, and also registered users. They supervise the

platform and make sure that the rules and conditions of utilization are respected. They have the possibility of communicating with the users via email when necessary.

- **Post:**

A submission made by a Registered User. A post is composed of a title, description, one image, topic category, and an optional media/link submission. All posts are required to have a title text describing what the post contains, although a description and image can be left blank. A Post can be used as plain text for an article, an uploaded image to promote a digital artwork or event flyer, or a discussion post.

- **Comment:**

A way for Users to communicate with other Users. A Registered User can leave a comment by clicking on another Registered User's post and using the box located underneath each post's image and description. A comment would be text only. The username, the text content, and the time it was submitted are all included in each comment.

- **Message:**

A Registered User can message another Registered User. A textbox must not be empty. A message body will be text-only. When a message is sent, the other registered user will receive a notification.

# Functional Requirements V3

## **Priority 1 - Must Have:**

### **Requirements for Website:**

1. Search Bar shall be present throughout all pages.
2. Footer shall be present throughout all pages.
3. Logo shall be present throughout all pages.
  - When the Logo is clicked, it shall redirect the User to the Home page.
4. Navigation Bar shall be accessible for all Users.
5. Navigation Bar shall have a tab that redirects to the Home page.
6. Navigation Bar shall have a tab that redirects to the Login page.
7. Navigation Bar shall have a tab that redirects to the Sign Up page.
8. Navigation Bar shall have a tab that redirects to the Posts page.
9. Navigation Bar shall have a Notifications tab.
10. Navigation Bar shall have a tab that redirects to the Create a Post page.
  - Create a Post page shall be visible only for Registered Users.
11. Navigation Bar shall have a tab that redirects to the Messages page.
  - Messages page shall be visible only for Registered Users.
12. Navigation Bar shall have a tab that redirects to the Profile Page.
  - Profile page shall be visible only for Registered Users.
13. Home page shall have a “Most Recent Posts” section.
14. Home page shall have a “Most Popular Posts” section.
15. Home page shall have six tabs, organized by content:

- “Articles and Essays”, “Art & Film”. “Clubs”, “Discords”, “Tutoring” and “Other”.

16. Footer shall have an About Us link.
17. Footer shall have the Terms & Conditions link.
18. Footer shall have the address of San Francisco State University.
19. Posts shall be public for all Users.
20. Comments shall be public for all Users.
21. Images shall be accessible for all Users.

**Requirements for Unregistered User:**

1. Unregistered Users shall be able to view all Posts.
2. Unregistered Users shall be able to view all Comments.
3. Unregistered Users shall be able to view all Images.
4. Unregistered Users shall be able to utilize the Search bar.

**Requirement for Registered Users:**

22. Registered Users shall be able to add a Post onto the platform.
23. Registered Users shall be able to add Comments on another Registered User’s Posts.
24. Registered Users shall be able to receive notifications from other Registered Users.
25. Registered Users shall have a Profile.
26. Registered Users shall be able to send messages.
27. Registered Users shall be able to receive messages.
28. Registered Users shall be able to like a Post.
29. Registered Users shall be able to delete their Post.

**Requirements for Posts:**

- 30. Posts shall have an image submission field.
  - Posts shall have a default image if no image is uploaded.
- 31. Images shall only be accepted in jpg, png, or jpeg format.
- 32. Posts shall display the Registered User who created the post.
- 33. Posts shall include a comment box.
- 34. Posts shall include a “Leave a Comment” submission button.
- 35. Posts shall display the time of the submission.
- 36. Posts shall include a like button.
- 37. Posts shall display the number of likes it has received.

**Requirements for Comments:**

- 38. Comments shall display the username of the Registered User who created the comment.
- 39. Comments shall display the time of the comment submission.
- 40. Comments shall be text only.

**Requirements for Admins:**

- 41. Admins shall be a Registered User.
- 42. Admins shall be able to Post.
- 43. Admins shall be able to Comment.
- 44. Admins shall be able to send messages.
- 45. Admins shall be able to receive messages.
- 46. Admins shall be able to like a Post.

47. Admins Users shall be able to receive notifications from Registered Users.

**Requirements for Professors:**

48. Professors shall be a Registered User.

49. Professors shall be able to receive notifications from other Registered Users.

50. Professors shall have a Profile.

51. Professors shall be able to Comment.

52. Professors shall be able to send messages.

53. Professors shall be able to receive messages.

54. Professors shall be able to like a Comment.

55. Professors shall be able to undo the like on a Comment.

**Requirements for Tutors:**

56. Tutors shall be a Registered User.

57. Tutors shall be able to receive notifications from other Registered Users.

58. Tutors shall have a Profile.

59. Tutors shall be able to Post.

60. Tutors shall be able to delete their Post.

61. Tutors shall be able to Comment.

62. Tutors shall be able to send messages.

63. Tutors shall be able to receive messages.

64. Tutors shall be able to like a Post.



## **Priority 2 - Desired:**

### **Desired Requirements for Registered Users:**

1. Registered Users must register using their San Francisco State University email.
2. Registered Users shall be able to upload a Profile Picture.
3. Registered Users shall be able to like a Comment.
4. Registered Users shall be able to undo a like on a Comment.
5. Registered Users shall be able to undo a like on a Post.
6. Registered Users shall be able to edit their Comments.
7. Registered Users shall be able to delete their Comments.
8. Registered Users shall be able to 'Flag' a post.
9. Registered Users shall be able to 'Flag' a comment.
10. Registered Users shall be able to edit messages.
11. Registered Users shall be able to delete messages.
12. Registered Users shall be able to edit their Post.

### **Desired Requirements for Admin:**

13. Admin shall be able to review 'Flagged' posts.
14. Admin shall be able to review 'Flagged' comments.
15. Admin shall be able to upload a Profile Picture.
16. Admins shall be able to edit their Post.
17. Admins shall be able to delete their Post.
18. Admins shall be able to undo a like on a Post.

19. Admins shall be able to edit their comments.
20. Admins shall be able to delete their comments.
21. Admin shall be able to edit messages.
22. Admin shall be able to delete messages.
23. Admins shall be able to like a Comment.
24. Admins shall be able to undo a like on a Comment.
25. Admins shall be able to delete other Users.
26. Admins shall be able to delete other Posts.
27. Admins shall be able to delete other Comments.
28. Admins users shall be able to post to and edit the “About Me” section of the web application.

**Desired Requirements for Tutor:**

29. Tutors shall be able to upload a Profile Picture.
30. Tutors shall be able to edit their Post.
31. Tutors shall be able to undo the like on a Post.
32. Tutors shall be able to edit messages.
33. Tutors shall be able to delete messages.
34. Tutors shall be able to edit their comments.
35. Tutors shall be able to delete their comments.
36. Tutors shall be able to like a Comment.
37. Tutors shall be able to undo the like on a Comment.

**Desired Requirements for Professor:**

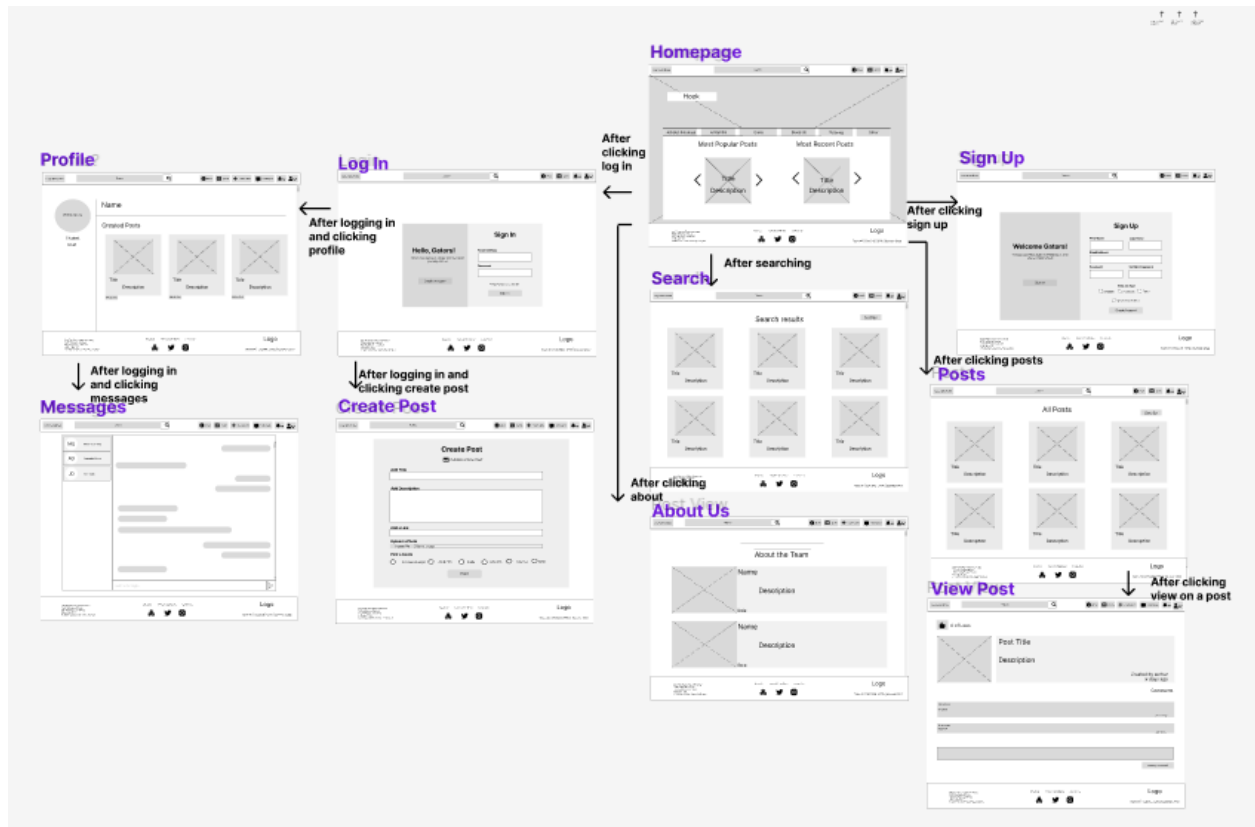
38. Professors shall be able to upload a Profile Picture.

39. Professors shall be able to edit messages.
40. Professors shall be able to delete messages.

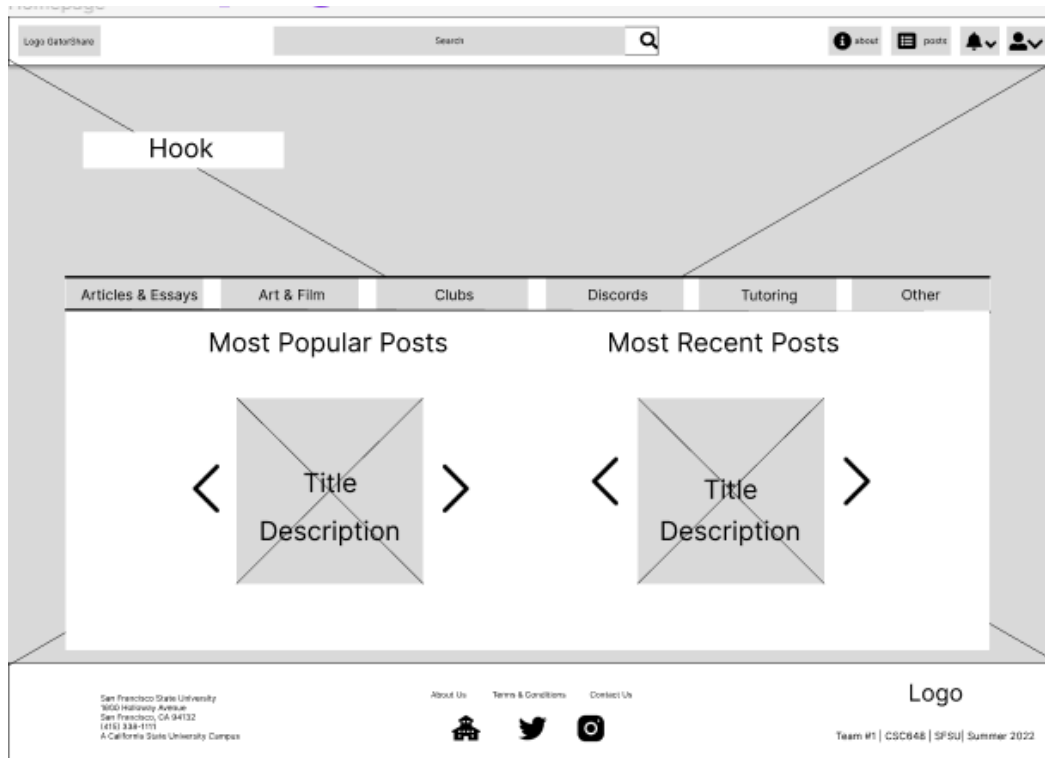
**Priority 3 - Opportunistic:**

1. All liked posts from users shall be saved.
2. All posts shall have a 'Report' button for spam.
3. All comments shall have a 'Report' button for spam.
4. Registered Users shall be able to receive notifications from Administrators if their Posts or Comments have been removed.
5. Admins shall be able to review 'Reported' posts.
6. Admins shall be able to review 'Reported' comments.

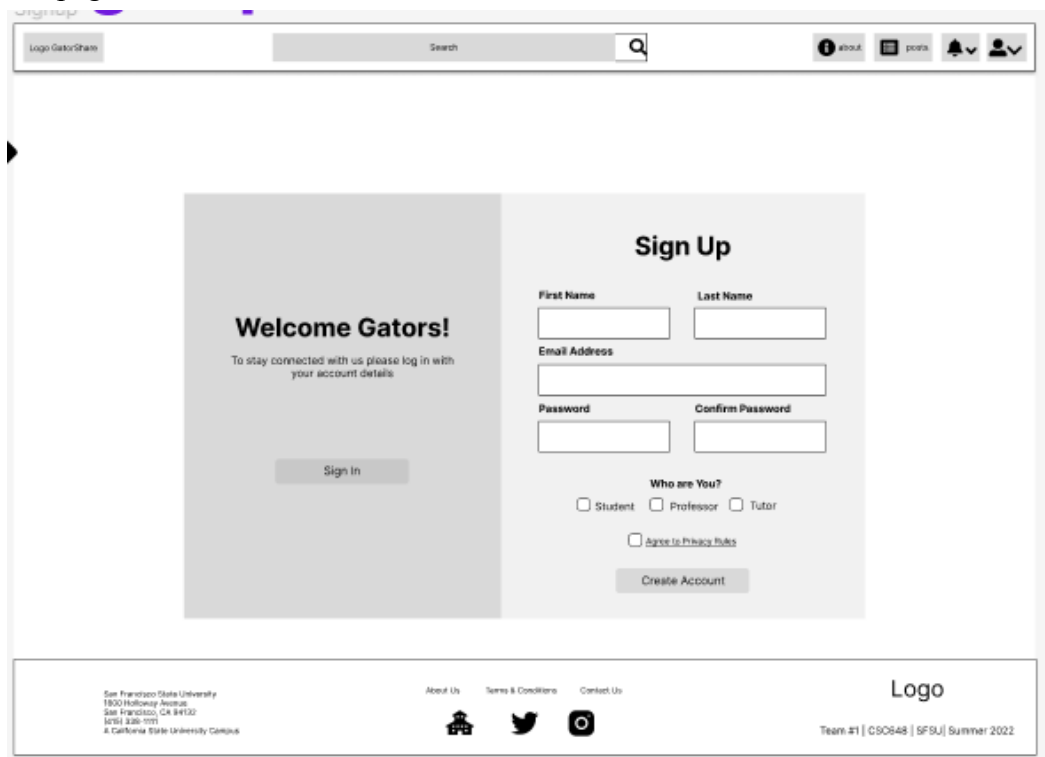
# Wireframes based on Mockups/Storyboards



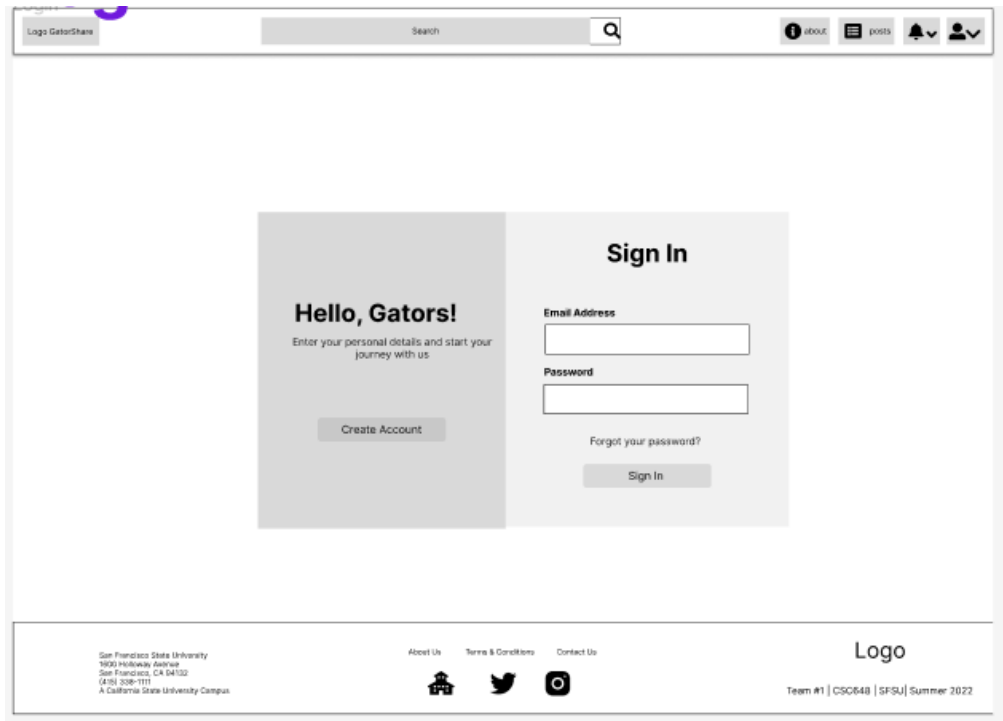
Homepage:



Sign Up page: After clicking "Sign Up" from the navbar tab or clicking "Create Account" from the Sign In page



Sign In: After clicking “Log In” on the navbar tab, or “Sign In” from the Sign Up page



The Sign In page features a top navigation bar with a logo, a search bar, and links for about, posts, notifications, and user profile. The main content area is split into two columns. The left column, titled "Hello, Gators!", encourages users to enter their details and start their journey, with a "Create Account" button. The right column, titled "Sign In", contains input fields for "Email Address" and "Password", a "Forgot your password?" link, and a "Sign In" button. The footer includes university contact information, social media icons, and a team identifier.

Logo GatorShare Search about posts notifications user

## Hello, Gators!

Enter your personal details and start your journey with us

Create Account

## Sign In

Email Address

Password

Forgot your password?

Sign In

San Francisco State University  
1600 Holloway Avenue  
San Francisco, CA 94132  
(415) 338-1111  
A California State University Campus

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Logo

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Create Post: After logging in, click the “+ Create Post” tab in the navbar



The Create Post page features a top navigation bar with a logo, a search bar, and links for about, posts, create post, messages, notifications, and user profile. The main content area is a form titled "Create Post" with a "Publish a New Post" button. The form includes fields for "Add Title", "Add Description", and "Add a Link". It also has an "Upload a Photo" section with a "Choose File" button and a "No file chosen" status. Below this is a "Pick a Genre" section with radio buttons for "Articles & Essays", "Art & Film", "Clubs", "Discords", "Tutoring", and "Other". A "Post" button is at the bottom of the form. The footer is identical to the Sign In page.

Logo GatorShare Search about posts + create post messages notifications user

## Create Post

Publish a New Post

Add Title

Add Description

Add a Link

Upload a Photo

Choose File No file chosen

Pick a Genre

☐ Articles & Essays ☐ Art & Film ☐ Clubs ☐ Discords ☐ Tutoring ☐ Other

Post

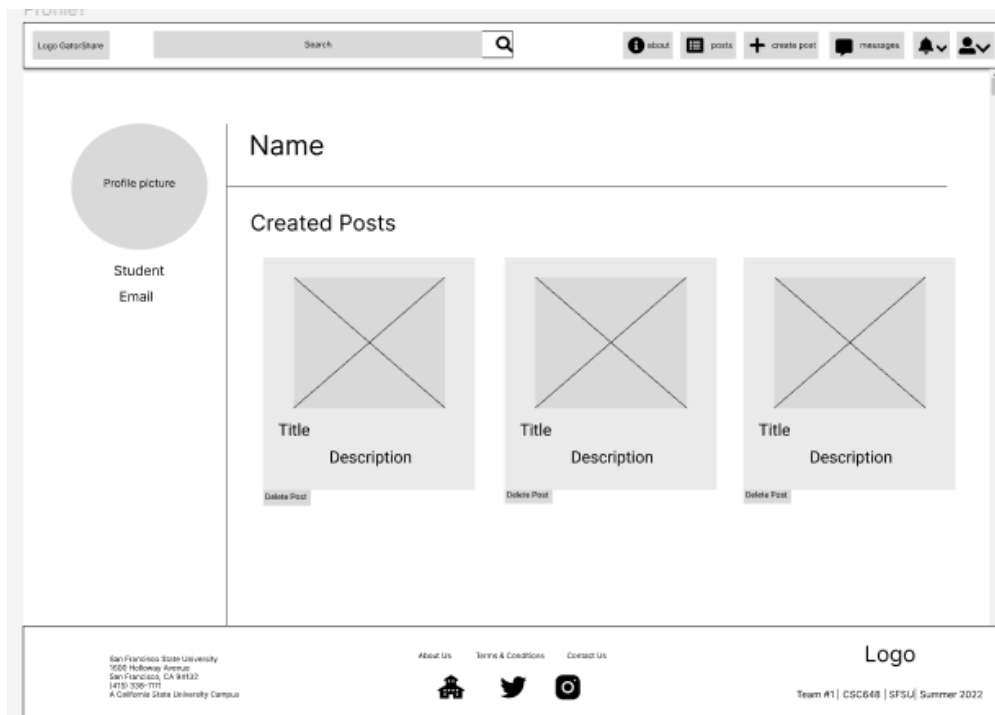
San Francisco State University  
1600 Holloway Avenue  
San Francisco, CA 94132  
(415) 338-1111  
A California State University Campus

About Us Terms & Conditions Contact Us

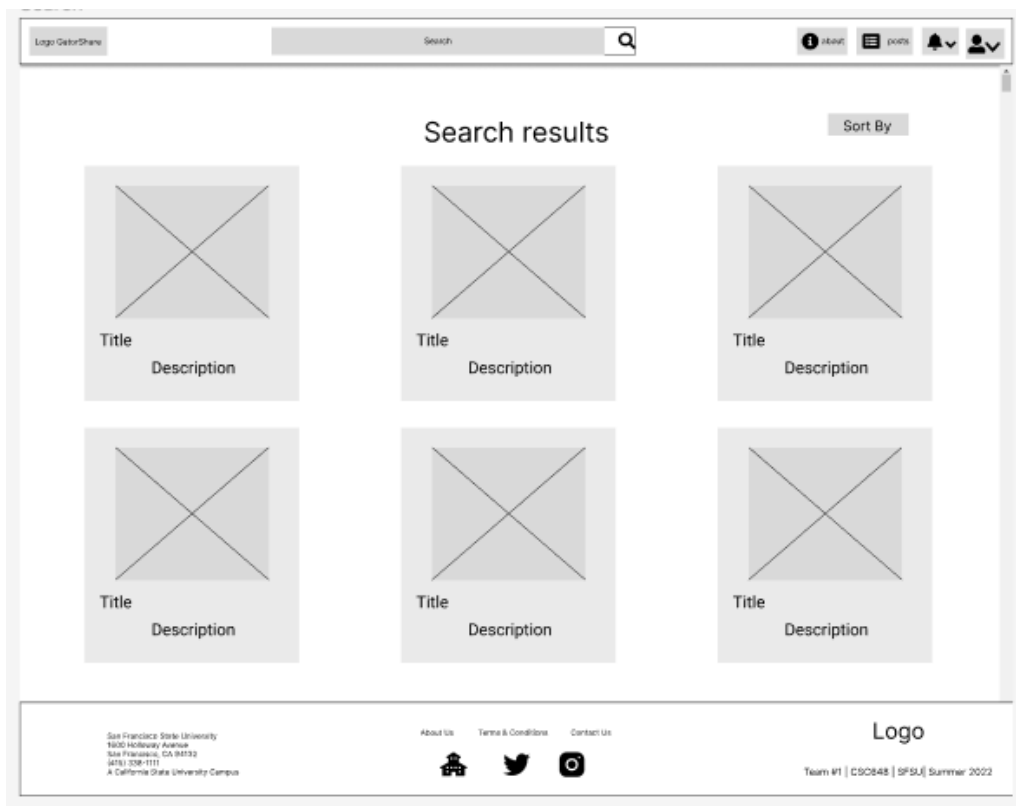
Logo

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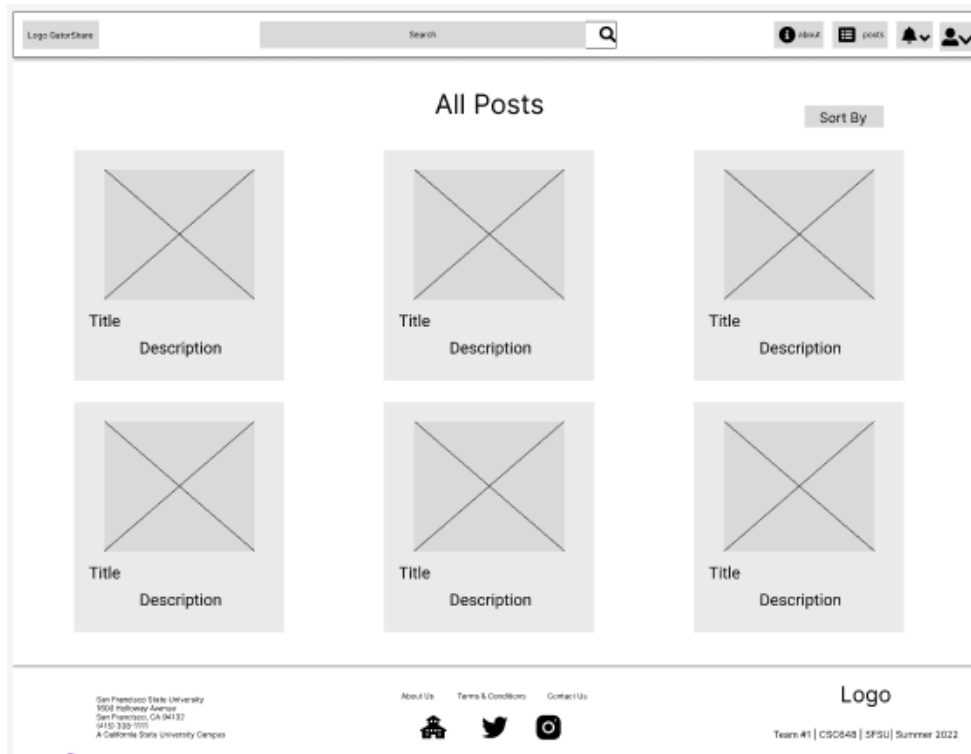
Profile: After logging in, and clicking “Profile” in the navbar



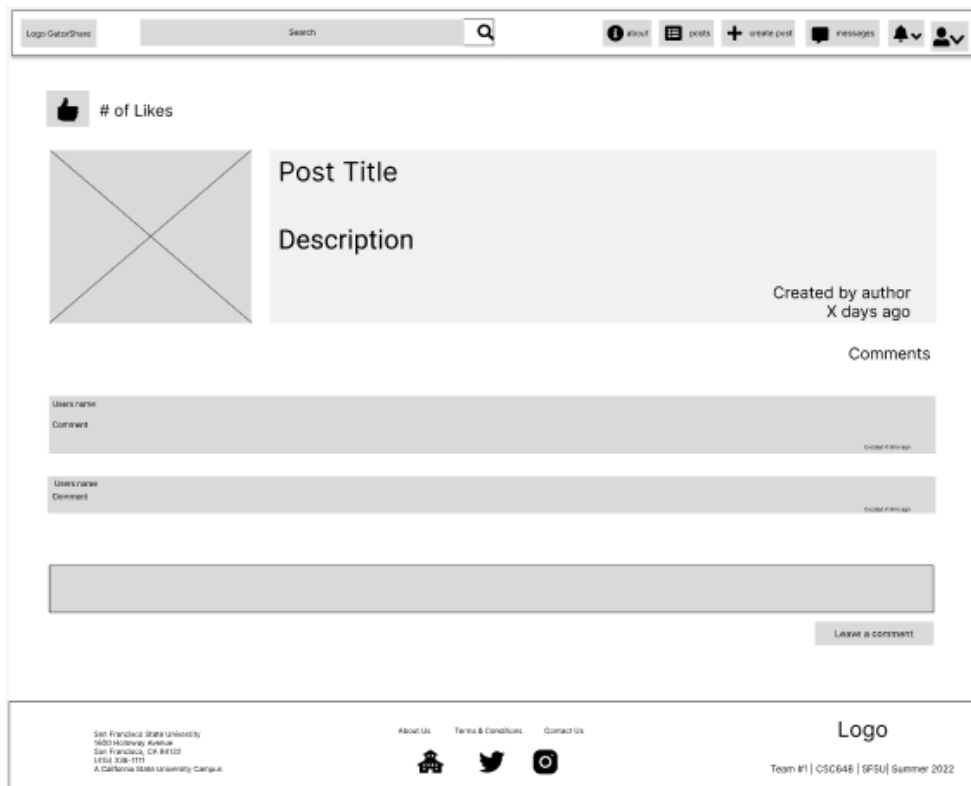
Search: After using the search bar in the navbar



Posts: After clicking “Posts” in the navbar

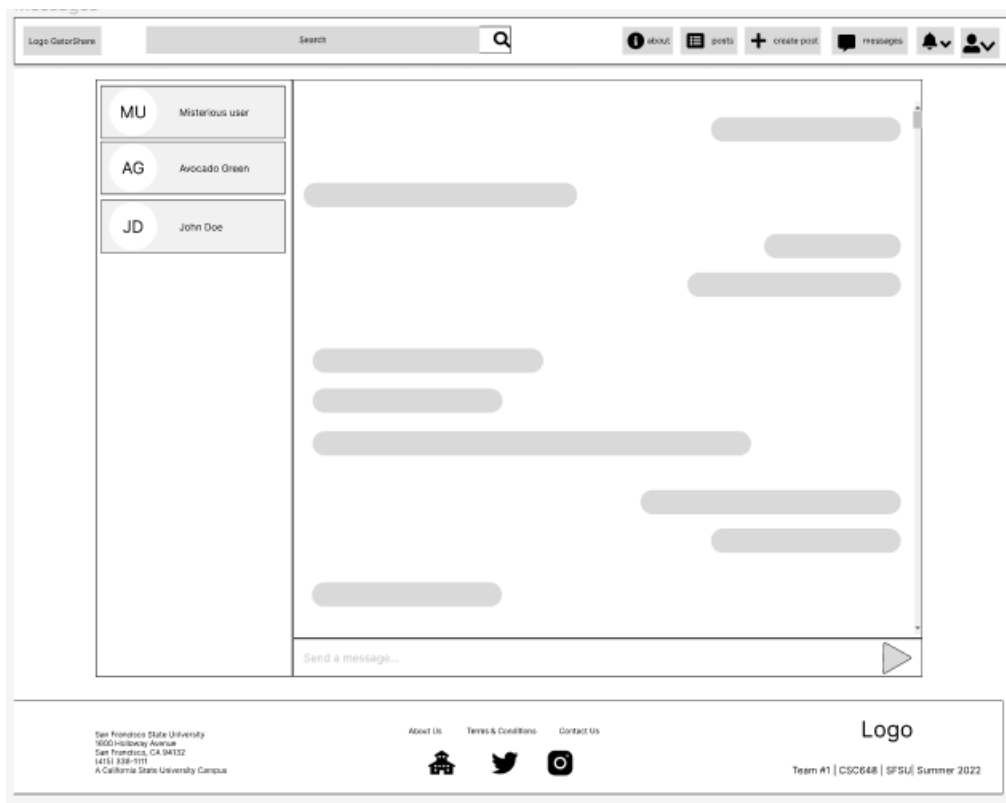


Post View: After clicking a post to view from the Homepage, Posts, Search Results, or Profile

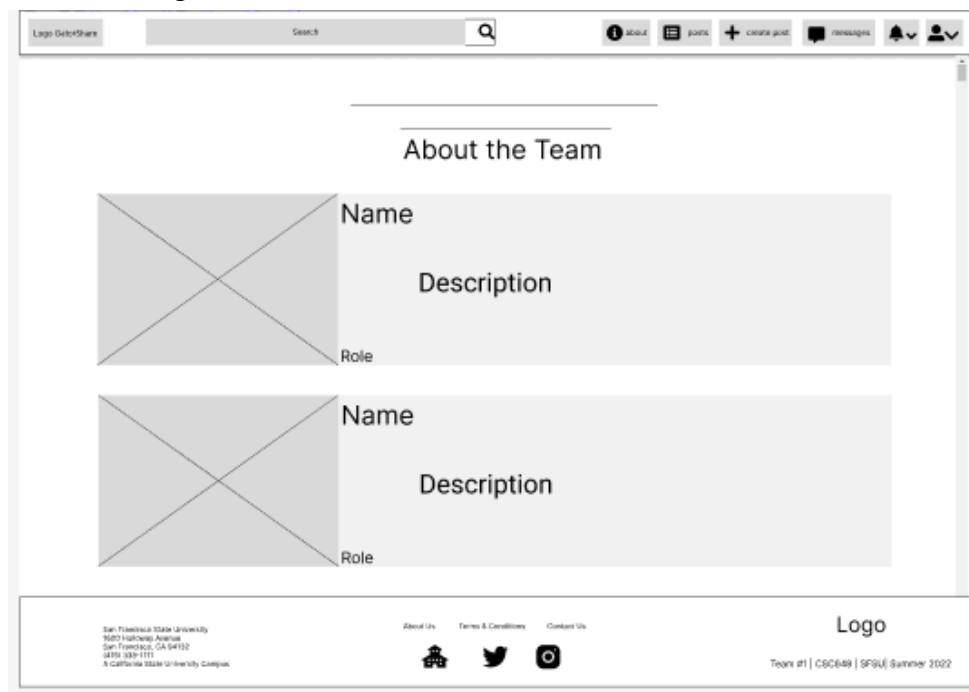




Messages: After logging in and clicking “Messages” in the navbar

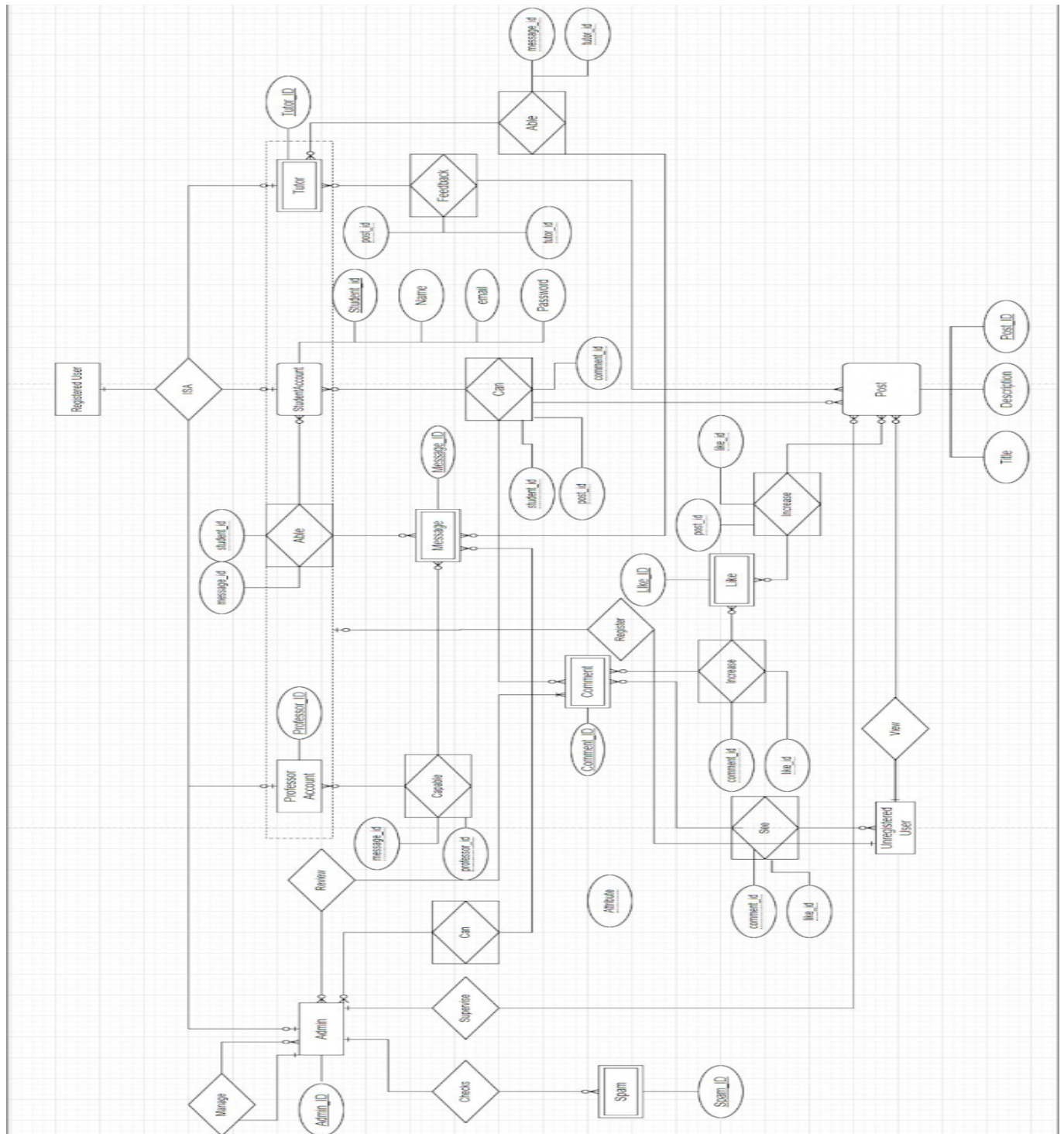


About Us: After clicking “About Us” in the footer

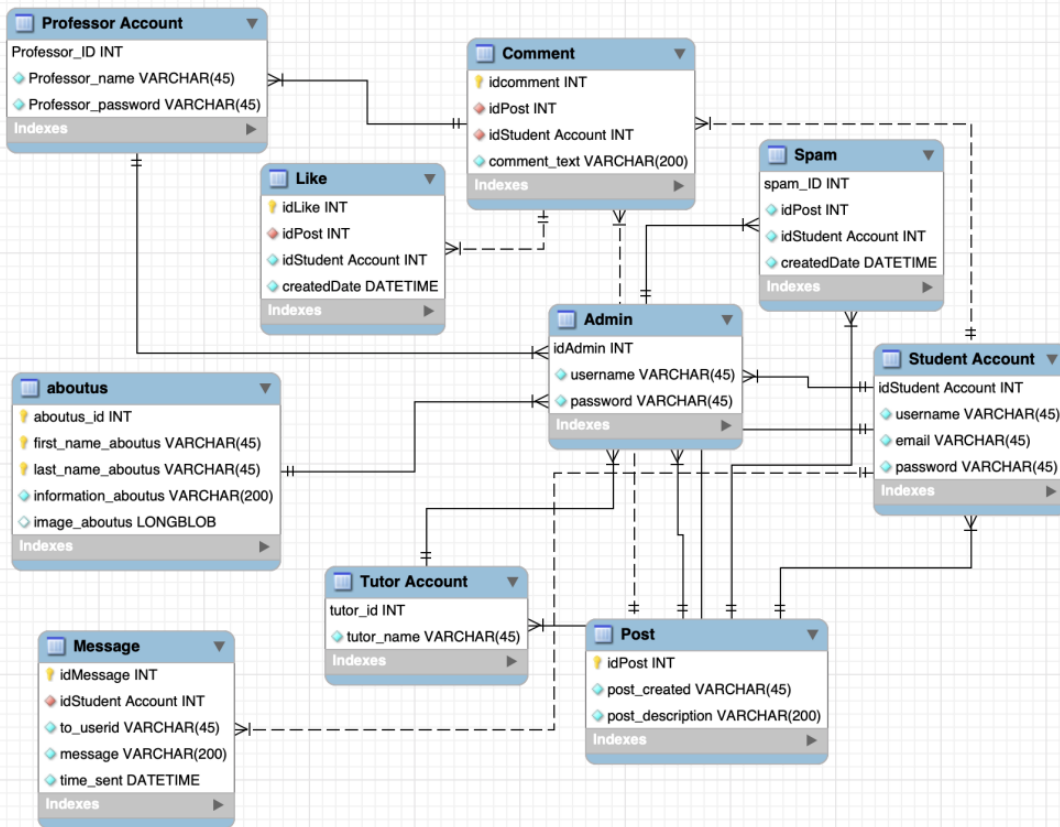


## High Level Database Architecture and Organization V2

Entity Relationship Diagram:

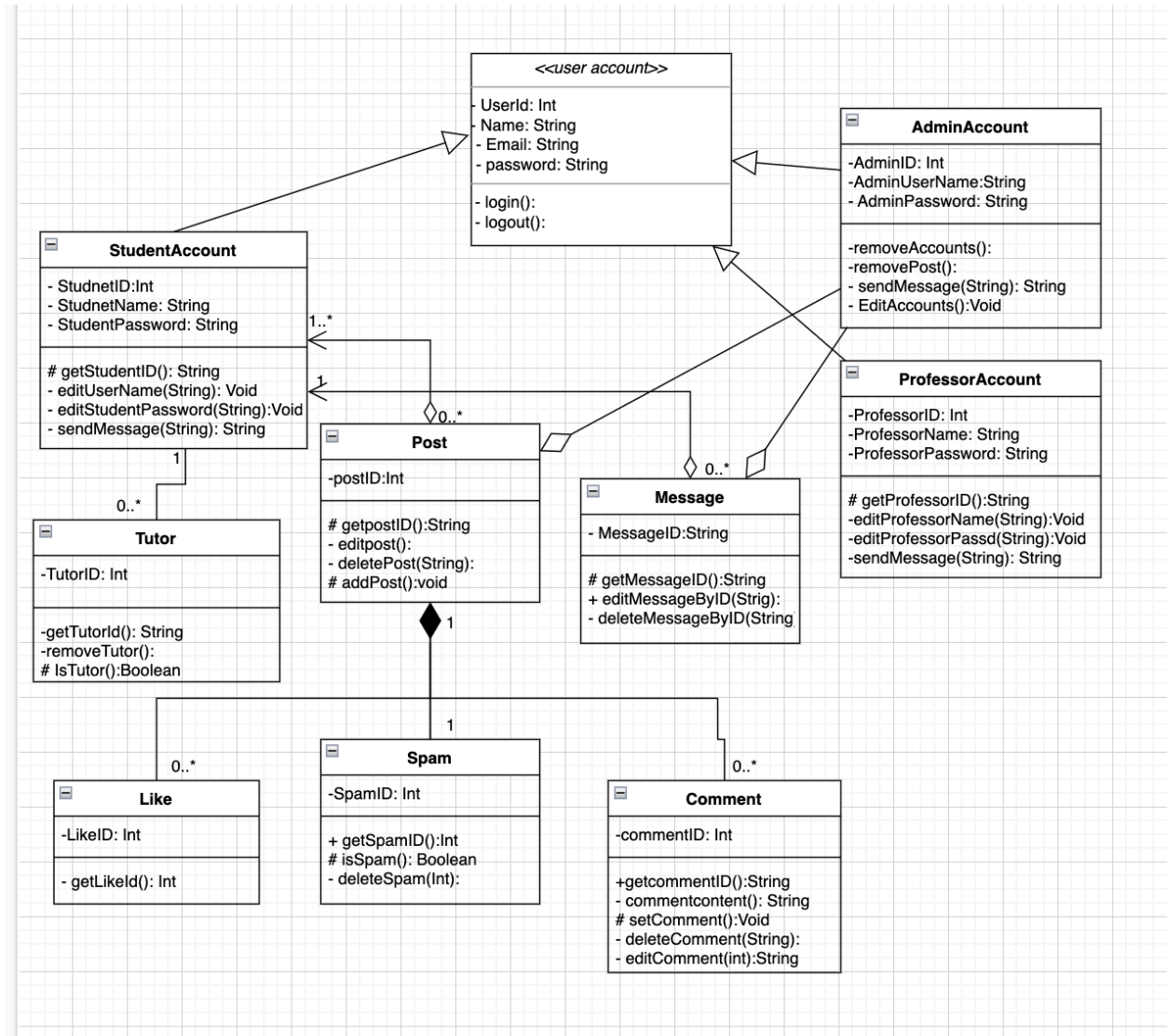


## Database Model:

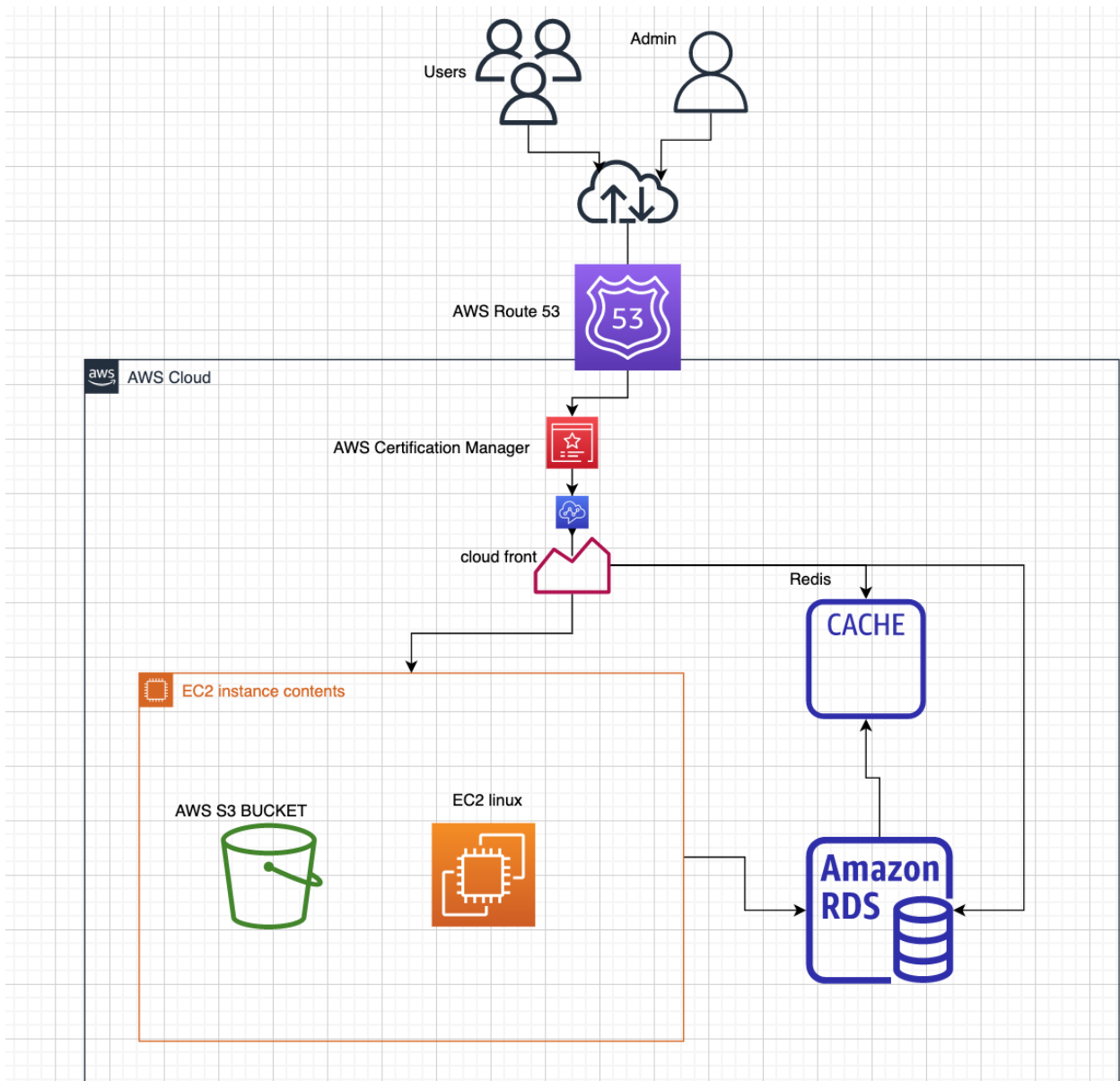


# High Level Diagrams V2

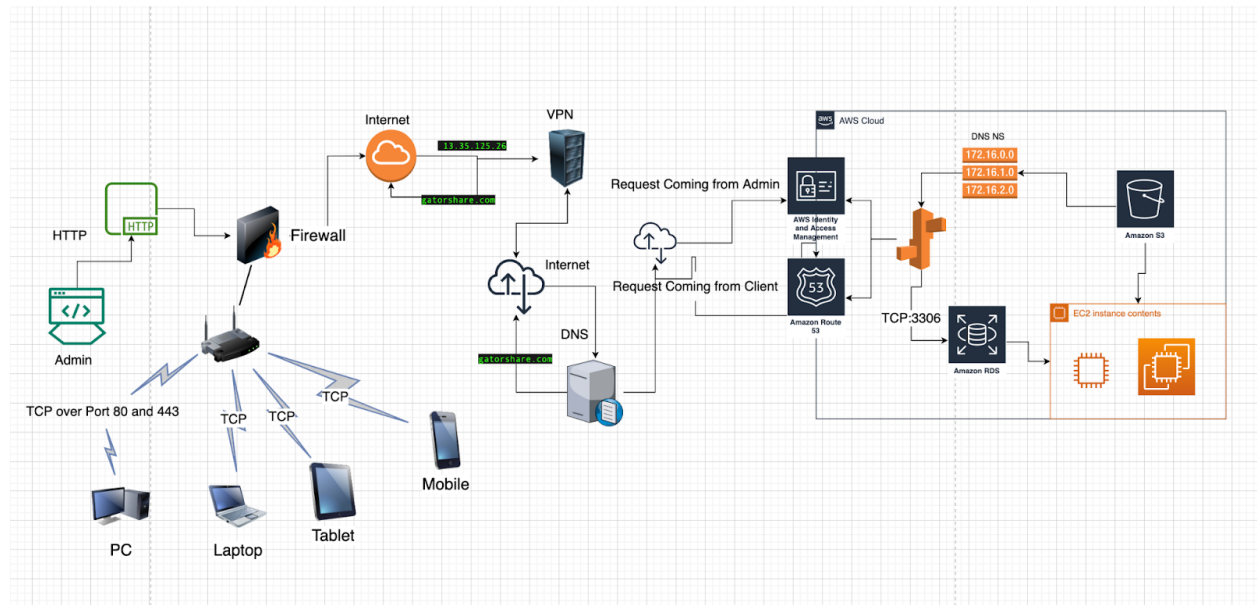
UML Diagram:



## Deployment Diagram:



## Application Network Diagram:



# List of Contributions

## **Estefanos (Back End Lead) -**

Contributed in discussions on Discord. Attended scheduled team meetings. Researched, revised and finalized high level API for Milestone 2 revision. Revised and finalized the UML diagram for both Milestone 2 revision and Milestone 3 documentation. Revised and finalized the High Level Application Network and Deployment Diagrams. Helped work on and revised High Level Database Architecture and Organization. Worked alongside the front-end team to integrate several functionalities such as creating a working Search bar, saving the Sign Up and Log In data, saving the Create Post data, and much more. Consistently tested alongside the front-end team to make sure the application is deployed correctly and ready to be used.

## **Brianna (Front End Lead) -**

Contributed in discussions on Discord. Attended scheduled team meetings. Made the effort to ensure everyone was aware of deadlines. Collaborated with the front-end team on the Horizontal Prototype. Helped check-in with team mates about their progress with specific tasks. Contributed to the creation of UI/UX wireframes. Helped revise Use Case mockups in Milestone 2. Helped code the Log In, Sign Up, Home and Create Post UI/UX. Created and finalized the Wireframe diagram. Added all screenshots and data related to wireframes into the Milestone 3 documentation. Helped revise all front-end portions of Milestone 2's revision document. Designated Milestone 3 editor. Helped revise and finalize Milestone 3 documentation.

**Brian (Database Master) -**

Contributed in discussions on Discord. Attended scheduled team meetings. Helped revise Main Data Entities and Functional Requirements. Revised and finalized High Level Database Architecture and Organization for Milestone 2 revision. Revised and finalized the Entity Relationship Diagram for Milestone 2 revision and Milestone 3 documentation. Revised and Finalized the Enhanced Entity Relationship diagram for both Milestone 2 revision and Milestone 3 documentation. Designated Scribe for the Horizontal Prototype meeting. Wrote notes and collected feedback for the team.

**Mohamed (GitHub Master) -**

Contributed in discussions on Discord. Attended scheduled team meetings. Created, revised, and finalized the application's Terms and Agreements. Helped design the applications Footer. Helped revise Main Data Entities and Functional Requirements. Helped brainstorm the Entity Relationship Diagram design. Helped brainstorm with the front-end team about specific page designs. Helped revise the Competitive Analysis for Milestone 2 revision. Helped revise the Non-Functional Requirements for Milestone 2 revision. Pushed M1V2 and M2V2 into the team's Github Repo.

**Aleksandr (Front End) -**

Contributed in discussions on Discord. Attended scheduled team meetings. Spent countless hours working with the front-end team and back-end lead to have a working, user-friendly, and



appealing Horizontal Prototype. Helped alongside the front-end lead to create UI/UX wireframes. Coded most of the Horizontal prototype. Helped revise and finalize the Entity Relationship Diagram. Helped revise and implement the “Agreement” portion for the website Terms and Agreements. Helped review and update Functional Requirements and Wireframes portion of the Milestone 3 document.