

Software Engineering CSC648-848-05 Spring 2023

Piqued

Team 5

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Milestone 3

April 27th, 2023

History Table

Version	Submission Date
M3V1	April 27, 2023
M2V2	April 19, 2023
M2V1	March 30, 2023
M1V2	April 16, 2023
M1V1	March 5, 2023

1. Data Definitions

- 1.1. Guest user: Individuals who do not have a registered account but can search and view public posts on the website. They can also view comments and reactions on public posts.
- 1.2. Registered user: Individuals who can log into their account, create, and publish posts on the website. They have the ability to edit and delete their own posts and comments, manage their account information, and view site statistics.
- 1.3. Site Moderators: Administrators who manage the frontend and backend of the website.
- 1.4. Blog Posts/Articles: Main content pieces on the website, written by users/authors. They contain text, images, and/or videos and can be categorized and tagged.
 - 1.4.1. Author: The user who originally posted the article.
 - 1.4.2. Published timestamp: A timestamp that represents when an article was originally posted.
 - 1.4.3. Updated timestamp: A timestamp that represents when an article was last updated by the author.
 - 1.4.4. Images: Visual content that can be used to enhance posts and improve engagement.
 - 1.4.5. Categories: Groupings of posts based on topic or theme
 - 1.4.6. Tags/Hashtag: Labels which can be added to a post to define its category and determine how it is found through search or recommended to other users.
 - 1.4.7. Comments: Rich text responses to posts made by users on the website.
 - 1.4.8. Reactions: Emotional responses on posts. This may include likes, emote responses, or any other form of instant feedback.
 - 1.4.8.1. Like: A positive response to a post by a registered user initiated by a simple button click.
 - 1.4.8.2. Reaction: Any other form of response by a registered user that can be either positive or negative.

1.4.8.3. Reaction count: A number which indicates the amount of reactions to a post.

1.5. Repost: A link to another user's post that appears on a user's profile.

1.6. Recommendations: Algorithmically generated list of posts based on the user's interests.

1.7. Feed/For You Page: A landing page for logged-in users which shows a scrollable list of recommended posts.

1.8. Search: A search function that allows users to search blogs.

1.8.1. Search filter: Function to filter out results based on certain criteria. This may be based on the aforementioned categories.

1.8.2. Search sort: Function to sort the results based on a certain order.

1.9. Editor: UI for editing a blog post. This can feature a rich text editor where users can apply formatting to text and insert images, video, and other types of media.

1.10. Advertising Banners: Display ads that generate revenue for the website.

1.11. Notification: Represents a notification sent to a user. This can be a new follower, a comment on a post, etc.

1.12. Profile Page: A customizable page which contains a user's public information and posts.

1.12.1. Biography/Bio: A short, user-provided paragraph about the registered user.

1.13. Navigation bar/Header: A section where links are grouped together for easy navigation.

1.13.1. Website logo: Display the company's logo on the website to represent the company

1.13.2. Profile link: A link where the user can click on to go to their account page to edit their account.

1.13.3. Home page link: A link where the users can navigate back to the main domain.

1.13.4. Navigation links: Links to various primary pages or pages commonly accessed by users.

- 1.13.5. Hamburger Menu: A menu which contains navigation items to pages.
 This may be used on mobile for containing primary navigation links, or to
 allow users to quickly access followed pages.
- 1.14. Footer: An section at the bottom of the page which contains informational links.
 - 1.14.1. Company's "about us" page: Information about each of the developers of
 the website.
 - 1.14.2. Company's description: Information about the website and its purpose.
 - 1.14.3. Social Media Links: Links to the website's social media profiles.
 - 1.14.4. Privacy policy and Terms of Service: Links for legal purposes.

2. Functional Requirements :

Priority 1 Requirements :

2.1. All Users

- 2.1.1. All users shall be able to view the website's information
- 2.1.2. All users shall be able to contact the site moderators with questions
- 2.1.3. All users shall be able to view the privacy policy
- 2.1.4. All users shall be able to view the terms and conditions

2.2. Guest Users

- 2.2.1. Guest users shall be able to create an account
- 2.2.2. Guest users shall be able to use a unique username to create an account
- 2.2.3. Guest users shall be able to only view public posts
- 2.2.4. Guest users shall be able to view the contents of public posts
- 2.2.5. Guest users shall be able to view a profile's public information
- 2.2.6. Guest users shall be able to search for public posts
- 2.2.7. Guest users shall be able to discover other public users
- 2.2.8. Guest users shall be able to view comments on public posts
- 2.2.9. Guest users shall be able to view reactions on public posts

2.3. Registered Users

- 2.3.1. Registered users shall be able to log in
- 2.3.2. Registered users shall be able to log out
- 2.3.3. Registered users shall be able to sign in with either their email or username.
- 2.3.4. Registered users shall be able to add a profile picture
- 2.3.5. Registered users shall be able to edit their profiles
- 2.3.6. Registered users shall be able to change their profile picture
- 2.3.7. Registered users shall be able to change their displayed username
- 2.3.8. Registered users shall be able to change their email address
- 2.3.9. Registered users shall be able to change what information is displayed publicly to general users
- 2.3.10. Registered users shall be able to add contact information
- 2.3.11. Registered users shall be able to make contact information private or public.
- 2.3.12. Registered users shall be able to search for friends by username
- 2.3.13. Registered users shall be able to see pending friend requests
- 2.3.14. Registered users shall be able to accept friend requests
- 2.3.15. Registered users shall be able to reject friend requests
- 2.3.16. Registered users shall be able to remove friends

- 2.3.17. Registered users shall be able to create blog posts.
- 2.3.18. Registered users shall be able to add photos on blog posts.
- 2.3.19. Registered users shall be able to search for posts.
- 2.3.20. Registered users shall be able to update their posts.
- 2.3.21. Registered users shall be able to delete their posts.
- 2.3.22. Registered users shall be able to add comments on post.
- 2.3.23. Registered users shall be able to delete their own comments.
- 2.3.24. Registered users shall be able to like/dislike to other people's comments
- 2.3.25. Registered users shall be able to comment on posts
- 2.4. Administrator Users
 - 2.4.1. Administrator users shall be able to create authorized users on account
- 2.5. Site moderators - creators(us)
 - 2.5.1. Site moderators shall be able to delete posts/articles
 - 2.5.2. Site moderators shall be able to ban accounts
 - 2.5.3. Site moderators shall be able to temporarily block accounts for review
 - 2.5.4. Site moderators shall be able to edit the layout of the platform
 - 2.5.5. Site moderators shall be able to add additional features
 - 2.5.6. Site moderators shall be able to answer users' questions and concerns
 - 2.5.7. Site moderators shall be able to create an account
 - 2.5.8. Site moderators shall be able to post on the platform's main page
 - 2.5.9. Site moderators shall be able to make site announcements
 - 2.5.10. Site moderators shall be able to update website
 - 2.5.11. Site moderators shall be able to temporarily suspend the website for maintenance
 - 2.5.12. Site moderators shall be able to reinstate accounts
 - 2.5.13. Site moderators shall be able to review accounts
- 2.6. User's Profile Page
 - 2.6.1. User's profile page shall have the user's picture
 - 2.6.2. User's profile page shall have the user's username
 - 2.6.3. User's profile page shall have published public posts
 - 2.6.4. User's profile page shall have a biography
 - 2.6.5. User's profile page shall have contact information that are made public by user
- 2.7. All pages
 - 2.7.1. All pages shall have a navigation bar/header
 - 2.7.2. All pages shall have a menu with links to informational pages
 - 2.7.3. All pages shall have our company's logo
- 2.8. User's Logged-In Interface
 - 2.8.1. User's logged-in interface shall have a link to the user's account management page in the navigation bar

2.9. Blog Posts

- 2.9.1. Blog posts shall contain an original author
- 2.9.2. Blog posts shall contain a date and time of creation
- 2.9.3. Blog posts shall contain a date and time of modification to posts
- 2.9.4. Blog posts shall contain a title
- 2.9.5. Blog posts shall contain a photo(s)
- 2.9.6. Blog posts shall contain a category(ies)
- 2.9.7. Blog posts shall contain a tag(s)/hashtag(s)
- 2.9.8. Blog posts shall contain a comment sections with comments from other users

2.10. Exploration Newsfeed

- 2.10.1. Exploration newsfeed shall contain random public posts
- 2.10.2. Exploration newsfeed shall show recommended posts based on user's interests [have users choose interests based on categories - list that in database, search keyword API, populate on page]
- 2.10.3. Exploration newsfeed shall have a search bar
- 2.10.4. Exploration newsfeed shall have blog posts that can be clicked on to view full posts

2.11. Search Bar

- 2.11.1. Search bar shall have a filter function
- 2.11.2. Search bar shall have a sorting option
- 2.11.3. Search bar shall have a text box to search up public blog posts by categories, tags, and users

2.12. Navigation Bar

- 2.12.1. Navigation bar shall have a link to the user's profile when logged in
- 2.12.2. Navigation bar shall have a link to the home page
- 2.12.3. Navigation bar shall have a link to the user's account management page when logged in
- 2.12.4. Navigation bar shall have a link to the exploration page
- 2.12.5. Navigation bar shall have a post button

2.13. Menu

- 2.13.1. Menu shall have a link to the company's information page
- 2.13.2. Menu shall have a link to contact the company by emailing
- 2.13.3. Menu shall have the company's contact information
- 2.13.4. Menu shall have a link to "about us" page
- 2.13.5. Menu shall have a copyright logo
- 2.13.6. Menu shall have a link to the terms and conditions
- 2.13.7. Menu shall have a link to the privacy policy

Priority 2 Requirements :

2.14. Registered Users

- 2.14.1. Registered users shall be able to customize profile using a standard format template
- 2.14.2. Registered users shall be able to post videos on their blog post.
- 2.14.3. Registered users shall be able to save their profile photos to make it easier for them to change back and forth
- 2.14.4. Registered users shall be able to report other spam accounts to site moderators via a report link
- 2.14.5. Registered users shall be able to react to posts
- 2.14.6. Registered users shall be able to send private messages
- 2.14.7. Registered users shall be able to receive private messages

2.15. User's Logged-In Interface

- 2.15.1. User's logged-in interface shall have a notification icon that shows if there's any notification

2.16. Blog Posts

- 2.16.1. Blog posts shall contain videos
- 2.16.2. Blog posts shall contain a reaction(s) from other users
- 2.16.3. Blog posts shall be able to be reposted by other users

2.17. Chat Box

- 2.17.1. Chat box shall contain user's username for both sender and recipient(s)
- 2.17.2. Chat box shall contain group chat with more than two users
- 2.17.3. Chat box shall contain all users' online status
- 2.17.4. Chat box shall contain messages from all users within chat
- 2.17.5. Chat box shall contain date and time of messages sent

Priority 3 Requirements:

2.18. Guest users

- 2.18.1. Guest users shall be able to send a private message to a user

2.19. Registered Users

- 2.19.1. Registered users shall be able to disable comments for their posts. [P3]

2.20. User's Profile Page

- 2.20.1. User's profile page shall have their online status
- 2.20.2. User's profile page shall have a standard interface template that users can use to create a profile

2.21. Blog Posts

2.21.1. Blog posts shall have a standard interface template that users can use to create a blog post

2.22. All Pages

2.22.1. All pages shall have a advertisement banner

2.23. Menu

2.23.1. Menu shall have social media links

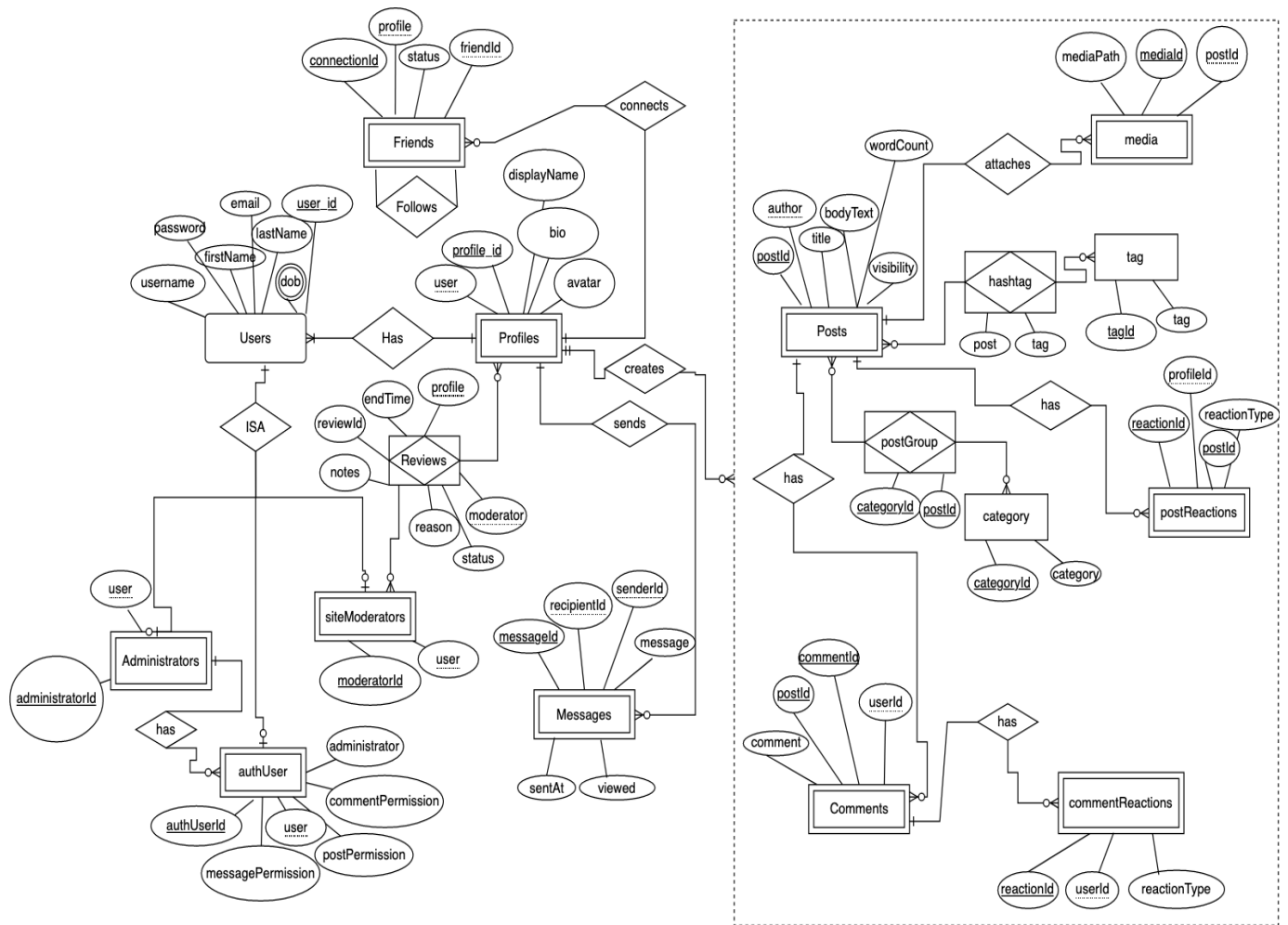
2.24. Chat box

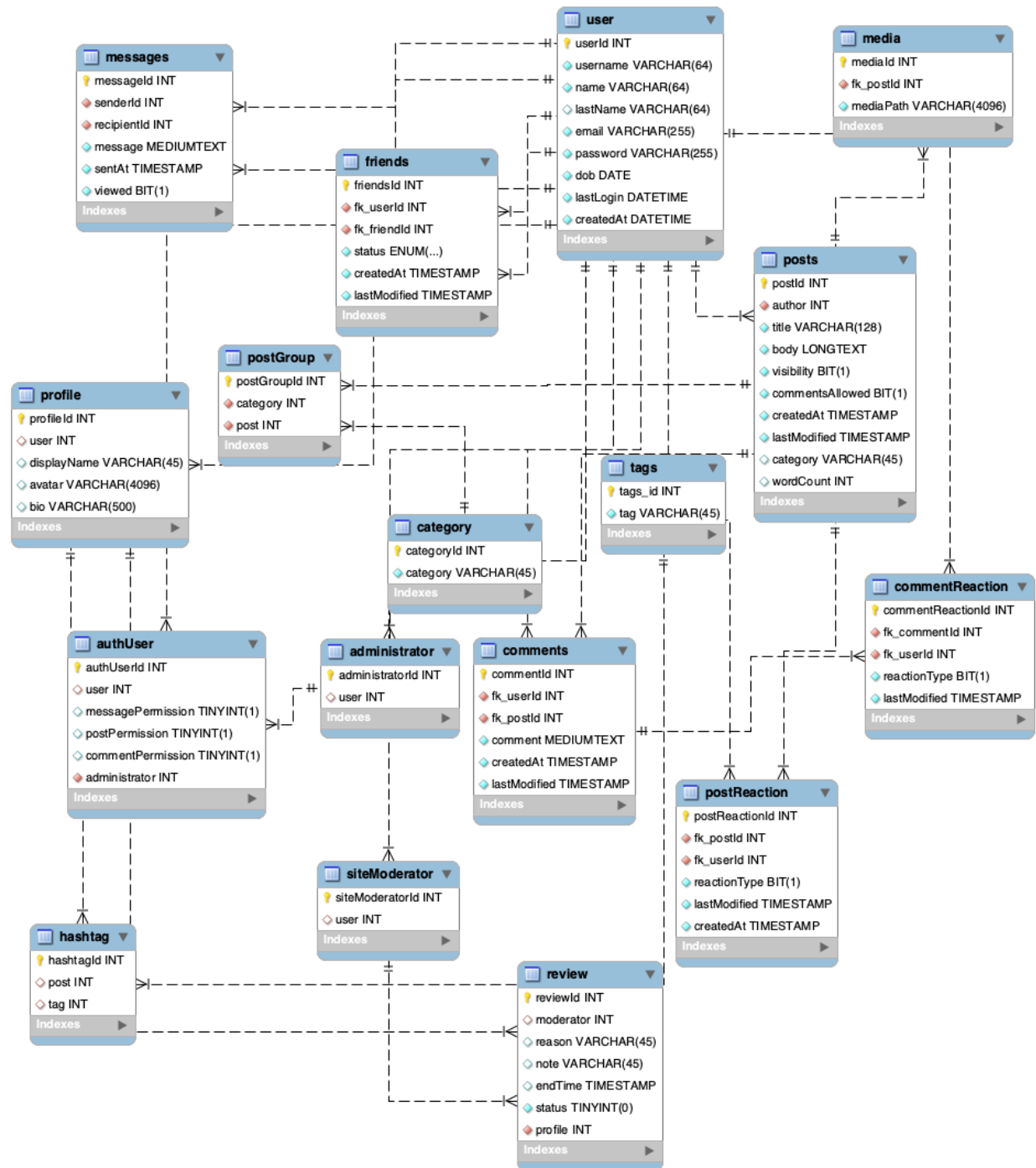
2.24.1. Chat box shall contain emojis

2.24.2. Chat box shall contain reactions

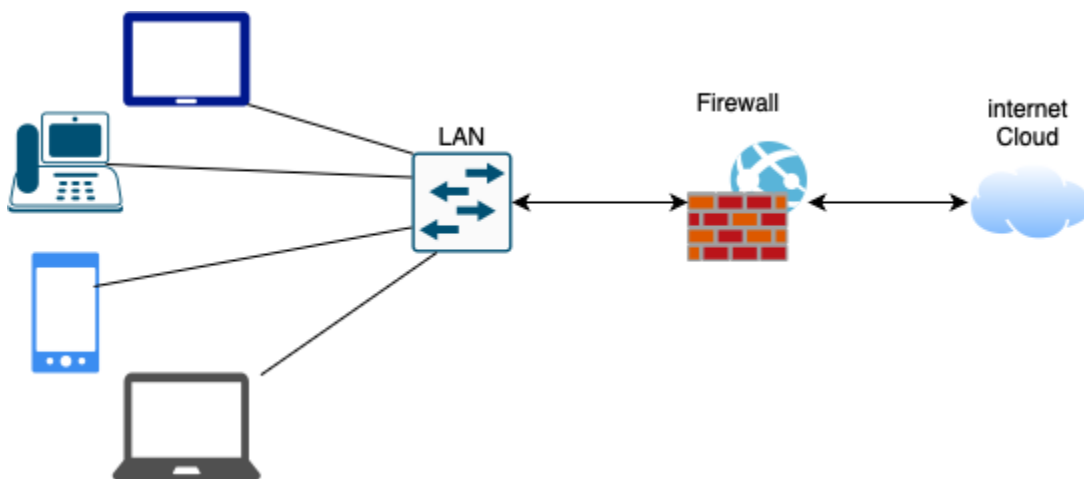
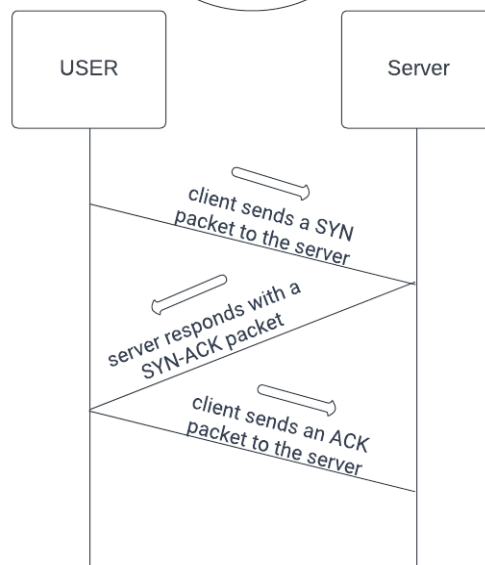
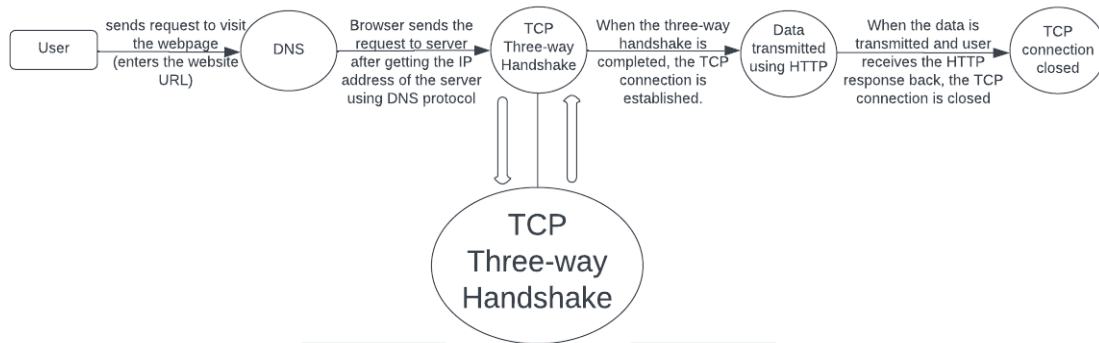
3. Wireframes Based on Your Storyboards and Mockups :

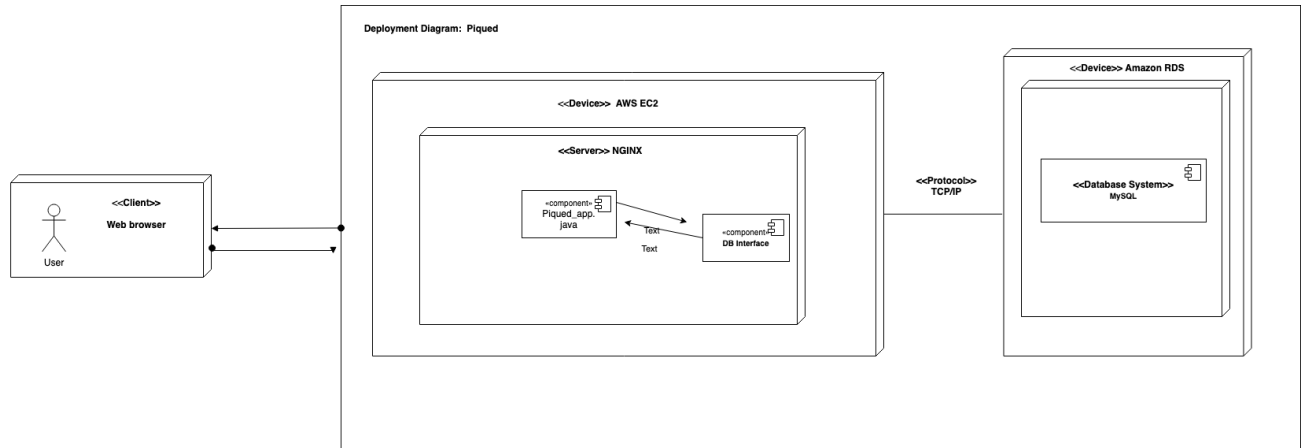
4. High Level Database Architecture and Organization :





5. High Level Diagrams :





6. List of Contributions :