

SW Engineering CSC648-01 Summer 2024

CodeConnect

Team 1 - PikaDevs

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“Milestone 3“

6/26/2024

History Table:

Date	Changes
7-28-24	Missing wireframes added

1. Data Definitions

1. User : Class - The user that creates the account.
 - 1.1. userID : Number - Primary key
 - 1.2. firstName : String
 - 1.3. lastName : String
 - 1.4. userName : String
 - 1.5. membershipType : String-Symbol (FREE, PREMIUM, MENTOR)
 - 1.6. email : String
 - 1.7. password : Number
 - 1.8. salt : Number - random data for hashing
 - 1.9. emailVerified : Boolean
 - 1.10. resetPasswordToken: String
 - 1.11. resetPasswordExpires : Date
 - 1.12. points : Number
 - 1.13. rankID : Number - Rank object
 - 1.14. challengesCompleted : Number - Array of Numbers(completed challenge IDs)
 - 1.15. numChallengesCompleted : Number
 - 1.16. allTrophies : JSON- Array of SpecificTrophy objects
 - 1.17. streakChallenge: Number - Streak of challenges completed
 - 1.18. coins : Number
 - 1.19. mentees : Json - Array of userIDs
 - 1.20. notificationList :Json - Array of Notification objects
 - 1.21. bookmarks : String - Array of postIDs
 - 1.22. numPosts : Number - number of posts + number of comments
 - 1.23. groups : Json - Array of Group objects
 - 1.24. groupsMentored : Json - Array of MentorGroup objects
 - 1.25. isPremium : boolean
 - 1.26. isMentor : boolean
2. PremiumUser : Class, extends User : A user that has paid the subscription fee for premium features
 - 2.1. userID : Number - Primary and foreign key
3. MentorUser : Class, extends User - A user that has become a mentor to other users. Must be approved by interview.
 - 3.1. userID : Number - Primary and foreign key
 - 3.2. feedbackCompleted: String- Array of FeedbackForm objects

4. Profile : The user's profile which has information about the user.
 - 4.1. profileID: Number - Primary key
 - 4.2. userID: Number - foreign key (the user who owns the profile)
 - 4.3. isMentor : boolean
 - 4.4. biography : String
 - 4.5. resume : String
 - 4.6. portfolioID : Number
5. ExternalLinks : Class - contains external links to be used by profile
 - 5.1. externalLinksID: Number - Primary key
 - 5.2. profileID : Number - foreign key
 - 5.3. xLogo: String - filepath to image
 - 5.4. linkedinLogo: String - filepath to image
 - 5.5. instagramLogo: String - filepath to image
 - 5.6. tiktokLogo: String - filepath to image
 - 5.7. facebookLogo: String - filepath to image
 - 5.8. xLink: String
 - 5.9. linkedinLink: String
 - 5.10. instagramLink: String
 - 5.11. tiktokLink: String
 - 5.12. facebookLink: String
 - 5.13. hasX: Boolean
 - 5.14. hasLinkedin: Boolean
 - 5.15. hasInstagram: Boolean
 - 5.16. hasTiktok: Boolean
 - 5.17. hasFacebook: Boolean
6. Portfolio: Class - Users will have this to display their projects
 - 6.1. portfolioID : Number - Primary key
 - 6.2. userID : Number - foreign key (user that create portfolio)
 - 6.3. visibility: Symbol (public or private)
7. Project : Class - these are data items to be stored in portfolio
 - 7.1. projectID : Number - Primary key
 - 7.2. Portfolio : Number - Foreign key
 - 7.3. link: String - link to project
 - 7.4. desc: String - text description of project
 - 7.5. title: String - title of project
 - 7.6. pictures: String - Array of file paths to images

8. Notification: Class
 - 8.1. notificationID : Number - primary key
 - 8.2. title: String - title of notification with template
 - 8.3. redirectLink: String - clicking notification takes you to link
 - 8.4. date: Date
 - 8.5. time: Time

9. UserNotification: A junction table(Associative entity) for notification and user
Since a user has many notification and a notification belong to many user
 - 9.1. userNotificationID: Number - primary key
 - 9.2. userID: Number - foreign key
 - 9.3. notificationID: Number - foreign key

10. Group : Class - users can join these to bond over commonalities such as being alumni from the same school, or having interest in a certain technology
 - 10.1. GroupsID: Number - primary key
 - 10.2. allMembers: String - Array of User objects who have access
 - 10.3. forum: String - Forum object
 - 10.4. groupsID : Number - foreign key

11. UserGroup: A junction table(Associative entity) for group and user
Since a mentorUser can join many MentorGroup and A MentorGroup can have many mentorUser
 - 11.1. UserGroupID: Number - primary key
 - 11.2. groupID: Number - foreign key reference group
 - 11.3. userID: Number - foreign key reference User

12. MentorGroup : Class extends Group - a group for mentors to communicate with their mentees
 - 12.1. groupID: Number - primary key
 - 12.2. mentorMembers: String - Array of User objects
 - 12.3. groupsID : Integer - foreign key

13. UserMentorGroup: A junction table(Associative entity) for group and user
Since a mentorUser can join many MentorGroup and A MentorGroup can have many mentorUser
 - 13.1. UserMentorGroupID: Number - primary key
 - 13.2. groupID: Number - foreign key reference MentorGroup
 - 13.3. userID: Number - foreign key reference mentorUser

14. Groups : Class - a list of all groups for access
 - 14.1. GrouopsID: Number - primary key
 - 14.2. mentorGroups : String - Array of MentorGroup objects
 - 14.3. groups:String - Array of Group objects
15. Post : Class - Posts that users can create in order to interact with the larger community.
 - 15.1. postID: Number - primary key
 - 15.2. userID: Number - foreign key
 - 15.3. content : String - the text content
 - 15.4. comments: String - Array of comments/replies to this post
 - 15.5. codeBlock: String
 - 15.6. date: Date
 - 15.7. time: Time
 - 15.8. likes: Number - number of likes on the post
 - 15.9. threadID : foreign key
16. Forum : Class - A collection of posts and data about the forum
 - 16.1. forumID: Number - primary key
 - 16.2. threadID : Number - foreign key
 - 16.3. threadTitle: String - Title of the forum thread
 - 16.4. date: Date - object
 - 16.5. time: Time - object
 - 16.6. access : String - List of members who have access
 - 16.7. threads: String - Array of ForumThread objects
17. ForumThread: Class - used to contain all posts under a thread topic
 - 17.1. threadID: Number - label each thread in unique identifier
 - 17.2. originalPoster: String - User object who started the thread
 - 17.3. threadTitle: String - title of the forum thread
 - 17.4. posts: Array of Post objects which make up the thread
 - 17.5. date: Date - object
 - 17.6. time: Time - object
 - 17.7. forumID: Number - foreign key
18. CodeChallenge : Class - The coding challenges that each user has access to and can attempt to solve.
 - 18.1. challengeID : Number - primary key
 - 18.2. title: String
 - 18.3. description: String

- 18.4. language: String
- 18.5. difficulty: String
- 18.6. codingBlock: String
- 18.7. deadline: Date - object
- 18.8. completionPoints: Number - points gained for completing this challenge
- 18.9. solutions: String - array of ChallengeSubmission objects - record of X successful solutions
- 18.10. codingTests: String
- 18.11. pseudocodeHint: String

- 19. UserChallenge: A junction table(Associative entity) for user and codeChallenge. Since a user has many codeChallenge and A codeChallenge belong to many user
 - 19.1. userChallengeID : Number - primary key
 - 19.2. userID: Number - foreign key
 - 19.3. challengeID: Number - foreign key

- 20. ChallengeSubmission: Class - contains submission data
 - 20.1. challengeSubID:Number -primary key
 - 20.2. userID: Number - foreign key
 - 20.3. challengeID: Number - foreign key
 - 20.4. codSub: string- the code is submitted
 - 20.5. date: Date - object
 - 20.6. time: Time - object
 - 20.7. verifiedSolution: Boolean - true if the submission was successful

- 21. SubmissionShare : Class (FR 1.18) - unique class to share with peers when you complete a challenge
 - 21.1. shareID : Number - primary key
 - 21.2. userID : Number - foreign key
 - 21.3. likes: Number
 - 21.4. Comments : String

- 22. Feedback : Class - The review form that mentors use to give feedback to mentees on their coding challenge solutions.
 - 22.1. feedbackID : Number - primary key
 - 22.2. userID : Number - foreign key reference mentorUser
 - 22.3. challengeSubID : Number - foreign key reference challengeSubmission
 - 22.4. solutionSubmission: String - ChallengeSubmission object the feedback is in response to

- 22.5. organizationFeedback: String - mentor's written feedback on formatting/organization of code
- 22.6. organizationScore: Number - mentor's scoring on scale of 1-5
- 22.7. logicFeedback: String - mentor's written feedback on code logic and efficiency
- 22.8. logicScore: Number - mentor's scoring on scale of 1-5
- 22.9. commentFeedback: String - mentor's written feedback on code comments
- 22.10. commentScore: String - mentor's scoring on scale of 1-5

- 23. Leaderboard : Class - list of all users organized by ranking points to be displayed as a table
 - 23.1. leaderboardID: Number - primary key
 - 23.2. userID: Number - foreign key
 - 23.3. numPoints : Number - Each user's number of points held
 - 23.4. rankTitle: String - Each user's rank title
 - 23.5. rankIcon: String - corresponding icon for user ranking

- 24. Rank : Class - the different icons and titles that users can acquire as they gain more points
 - 24.1. icon : String - path to image file
 - 24.2. title : Symbol
 - 24.3. rankID: Number - primary key
 - 24.4. ranksID: Number -foreign key
 - 24.5. pointsRange: Number - function returning true if User collected points fall in the range

- 25. Ranks : Class - list of different rank objects that users can acquire as they gain more points, and functions involving the ranks
 - 25.1. ranksID : Number - primary key
 - 25.2. rankID : Number - foreign key
 - 25.3. checkRequirements: String - function to check what rank User has and return the correct rank

- 26. Trophy : Class - inherited by SpecificTrophy class. Users earn these for specific achievements
 - 26.1. name: String
 - 26.2. trophyID: Number - primary key
 - 26.3. description: String - describes requirements to earn trophy
 - 26.4. Trophy flag : Boolean - true if user possesses trophy
 - 26.5. userID: Number - foreign key

- 26.6. checkRequirements : String- abstract method, implemented by SpecificTrophy
- 27. SpecificTrophy: Class extends Trophy - users can earn trophies for different achievements
 - 27.1. trophyID: Number - primary key
 - 27.2. hasTrophy : Boolean - used by User, is 1 if checkRequirements returns checkRequirements : function to be implemented
- 28. JobList : Class - Job listings that are available for any user to apply for.
 - 28.1. userID: Number - foreign key
 - 28.2. jobID: Number - primary key
 - 28.3. title: String
 - 28.4. company: String
 - 28.5. location: String
 - 28.6. description: String
 - 28.7. requirements: String
 - 28.8. date: Date - object
 - 28.9. applicationLink: String
- 29. userView: Class - A junction table(Associative entity) for joblist and user
Since a user can view many jobList and a jobList belong to many user
 - 29.1. userViewID: Number - primary key
 - 29.2. userID: Number -foreign key
 - 29.3. jobId: Number - foreign key
- 30. PaymentInfo: Class - Users will be able to store their payment information for purchases
 - 30.1. paymentID: Number- primary key
 - 30.2. cardNumber: Number
 - 30.3. cardName: String
 - 30.4. zipCode: Number
 - 30.5. backCode: Number - CVV/CVC code
- 31. UserPayment: A junction table(Associative entity) for payment and user
Since a user has many paymentInfo and a paymentInfo belong to many user
 - 31.1. userPaymentID: Number - primary key
 - 31.2. userID: Number - foreign key
 - 31.3. paymentID: Number - foreign key

- 32. Message : Class - Sent between users as direct messaging
 - 32.1. MessageID: Number -primary key
 - 32.2. userID: Number - who's sending the message (foreign key)
 - 32.3. inboxID: Number - who's receiving the message(foreign key)
 - 32.4. time: Time- object
 - 32.5. date: Date - object
 - 32.6. content: String - content of the message
 - 32.7. messageID: Number -foreign key
- 33. MessageThread: Class - includes all past replies to a single message thread
 - 33.1. messageThreadID : Number - primary key
 - 33.2. participatingUsers: String - Array of User objects who are in the message thread
- 34. Inbox : Class - Every user contains an inbox of messages that other users have sent them
 - 34.1. inboxID: Number - primary key and foreign key
 - 34.2. messageThreads:String - array of MessageThread objects
- 35. SupportForm : Class - All users can use these to communicate with the company
 - 35.1. supportFormID : Number - primary key
 - 35.2. from(userID) : Number - foreign key reference user
 - 35.3. to(userID) : Number - foreign key reference userHiring
 - 35.4. date: Date - object
 - 35.5. time: Date - object
 - 35.6. message: String - populated by user from UI
- 36. userHiring: Class extends User - A company user that hiring user
 - 36.1. userID : Number : primary key
 - 36.2. company : String - the company that user work for
 - 36.3. position : String - The position of user is in company
- 37. chatSession : Meeting rooms which users can use to meet with other users (free or premium). (Assuming this relates to workspace idea - what separates this from an inbox thread with multiple recipients?)
 - 37.1. chatSessionID: Number - primary key
 - 37.2. User ID : Number - foreign key
 - 37.3. date : Date - object
 - 37.4. title : String

- 37.5. invitees : Json - list of user_ID's
- 38. UserChatSession: A junction table(Associative entity) for user and chatSession
Since a user has many codeChallenge and A codeChallenge belong to many user
 - 38.1. userChatSessionID: Number - primary key
 - 38.2. userID: Number - foreign key
 - 38.3. chatSessionID: Number - foreign key
- 39. Chatbot : alternative to support form for users to communicate with an AI rep for the company
 - 39.1. Chatbot ID: Number - primary key
 - 39.2. User ID : Number - foreign key reference userHiring

2. Functional Requirements

Priority 1:

1. All Users:

- *1.1 Users shall be able to explore some portions of the product without a profile
- *1.2 Users shall be able to solve an example problem.
- *1.3 Users shall create a profile
- *1.4 Users shall be able to Log in/Log out (only with created profile)
- *1.6 Users shall be able to upload profile picture
- *1.7 Users shall be able to Delete profile
- *1.8 User shall be able to update payment information
- *1.9 Users shall be able to make their profile private or public
- *1.12 Users shall be able to check other users profiles/stats
- *1.13 Users shall be able to do coding challenges
- *1.15 Users shall be able to award different profile trophies for achievements
- *1.17 Users shall be able to earn points for coding challenges
- *1.18 Users shall be able to like/comment on challenge posts
- *1.20 Users shall be able to check their coding ranking
- *1.21 Users shall be able to check leaderboards
- *1.22 Users shall be able to subscribe to Premium
- *1.23 Users shall be able to unsubscribe to Premium
- *1.32 Users shall be able to display other socials on their profiles
- *1.34 Users shall be able to request additional features from the dev team
- *1.35 Users shall be able to utilize live chat w/ other users
- *1.36 Users shall be able to direct message other users
- *1.38 Users shall be able to check coding streak counter of daily challenges
- *1.39 Users shall be able to create a portfolio
- *1.40 Users shall be able to check/update portfolio

- *1.41 Users shall be able to change portfolio visibility (public/private)
- *1.42 Users shall be able to access portfolio review
- *1.45 Users shall be able to submit support forms to submit feedback regarding the app
- *1.49 Users shall be able to view featured users (spotlight user that's completed most challenges/stayed the most active for the past month. Featured user gets changed monthly)
- *1.54 Users shall be able to join group session workshops led by mentors
- *1.60 Users shall be able to get assessed to become a mentor
- *1.61 Users shall be able to use an IDE without having to create an account
- *1.65 Users without premium shall be able to view three solutions per month
- *1.66 Users shall be able to see the difference between premium and free membership perks
- *1.67 Users shall be able to gain points by starting forum threads
- *1.68 Users shall be able to gain points by commenting in threads
- *1.69 Users shall be able to gain points by gaining friends
- *1.70 Users shall be able to gain points by gaining mentees
- *1.71 Users shall be able to gain points by gaining mentors
- *1.72 Users shall be able to post text and images to their profiles
- *1.73 Users shall be able to view a general feed of other users' updates and activities
- *1.76 Users shall be able to search for other users
- *1.77 Users shall be able to search for groups
- *1.78 Users shall be able to receive notifications for new coding challenges.
- *1.78 Users shall be able to receive notifications for messages and comments.
- *1.79 Users shall be able to customize notification preferences.
- *1.81 Users shall be able to save forum posts for later reading.
- *1.82 Users shall be able to report inappropriate content.
- *1.83 Users shall be able to block or mute other users.
- *1.84 Users shall be able to set privacy settings for profile visibility.
- *1.86 Users shall be able to request a mentor recommendation.
- *1.90 Users shall be able to subscribe to notifications for specific forums or groups
- *1.93 Users shall be able to view a scrolling list of job listings from home page
- *1.94 Users shall be able to view other users' activity from their homepages

2. Free Users

- *2.2 Free Users shall be able to check code challenge repo
- *2.3 Free users shall be able to view three pseudocode hints per month

3. Premium Users

- *3.0 Premium Users shall be able to check a single system chosen solution after completing a challenge
- *3.2 Premium Users shall be able to request mentorship (premium)

*3.3 Premium Users shall be able to Match mentors with similar coding language experience

*3.4 Premium users shall be able to view one pseudocode hint per challenge

*3.7 Premium Users shall be able to request code review from a mentor

4. **Mentor Users**

*4.1 Mentor Users shall be able to review code solutions of other users they are mentoring.

*4.4 Mentor Users shall be able to review Free/Premium users resumes/portfolios

*4.5 Mentor users shall be able to complete challenge feedback on coding challenges completed by mentees

*4.6 Mentor users shall be able to gain points by completing challenge feedback on mentee solutions

*4.7 Mentor Users shall be able to upload videos

*4.8 Mentor users shall have their number of mentees displayed on their profiles

*4.9 Mentor users shall have their number of solutions reviewed displayed on their profiles

*4.10 Mentor users shall have the groups they lead displayed on their profiles

Priority 2:

1. **All Users:**

**1.11 Users shall be able to follow other users/mentors

**1.16 Users shall be able to allow switching coding languages for challenges (cross compatibility) (different compilers - maybe 2 or 3 priority here)(would prefer just different sets of challenges based on language)

**1.24 Users shall be able to see pop-up ads for premium/paid utilities

**1.48 Users shall be able to take mock interviews (practice interviews with real-time communication and feedback from peers and other users)

**1.51 Users shall be able to utilize discounts/offers on apps premium features

**1.54 Users shall be able to join group session workshops led by mentors

**1.56 Users shall be able to view/update their own calendar(scheduled hackathons, virtual meetings..) (API or creating our own calendar?)

**1.59 Users shall be able to utilize a button to change the screen to dark mode.

**1.63 Users shall be able to choose their preferred speaking language(How does that look in implementation?)

****1.74 Users shall be able to earn coins**

****1.75 Users shall be able to trade coins for premium subscriptions**

-Or top leaderboard users get a premium reward

****1.80 Users shall be able to bookmark coding challenges.**

**1.87 Users shall be able to participate in live coding sessions.
**1.91 Users shall be able to access analytics on their coding performance.
**1.92 Users shall be able to receive notifications for new coding challenges.

2. Free Users:

**2.1 Free Users shall be able to check the most average solutions after completing a challenge.

3. Premium Users:

**3.1 Premium Users shall be able to check a system chosen set of 2-3 solutions after completing a challenge

4. Mentor Users:

**4.3 Mentor Users shall be able to create coding challenges.

Priority 3:

1. All Users:

***1.14 Users shall be able to see popular submissions (how is popular measured?)
***1.25 Users shall be able to application survey for mentorship (?)
***1.28 Users shall be able to take hiring questionnaire challenges (which are siblings to coding challenges)
***1.37 Users shall be able to access free/paid resources (videos/textbooks)
***1.43 Users shall be able to utilize chatbot (this function would be cool but bold because need to know the data items) (Use support form instead)
***1.44 Users shall be able to access virtual workspace (define virtual workspace?)
***1.46 Users shall be able to open source/collaborative coding projects (users can participate in other people's coding projects) (Similar to 1.44?)
***1.47 Users shall be able to read weekly digests (recommendations created for users based on interests/what they worked on)
***1.50 Users shall be able to utilize pair programming sessions (allows users to work on projects/code collaboratively) (similar to 1.44 and 1.46)
***1.52 Users shall be able to read technical news (similar to 1.47)
***1.57 Users shall be able to create Recruiter/Hiring Manager specific profile
***1.58 Users shall be able to pass a Recruiter/Hiring manager verification/background check
***1.88 Users shall be able to join virtual coding bootcamps.
***1.89 Users shall be able to create and manage a personal blog.

2. Free Users: N/A

1. Premium Users:

***3.5 Premium Users shall be able to create code challenge repo, which are reviewed by the dev team prior to publication. (with a full repo it could be harder to check solutions vs a simple IDE plug in/compiler. Resources may be difficult on this topic...maybe talk to prof)

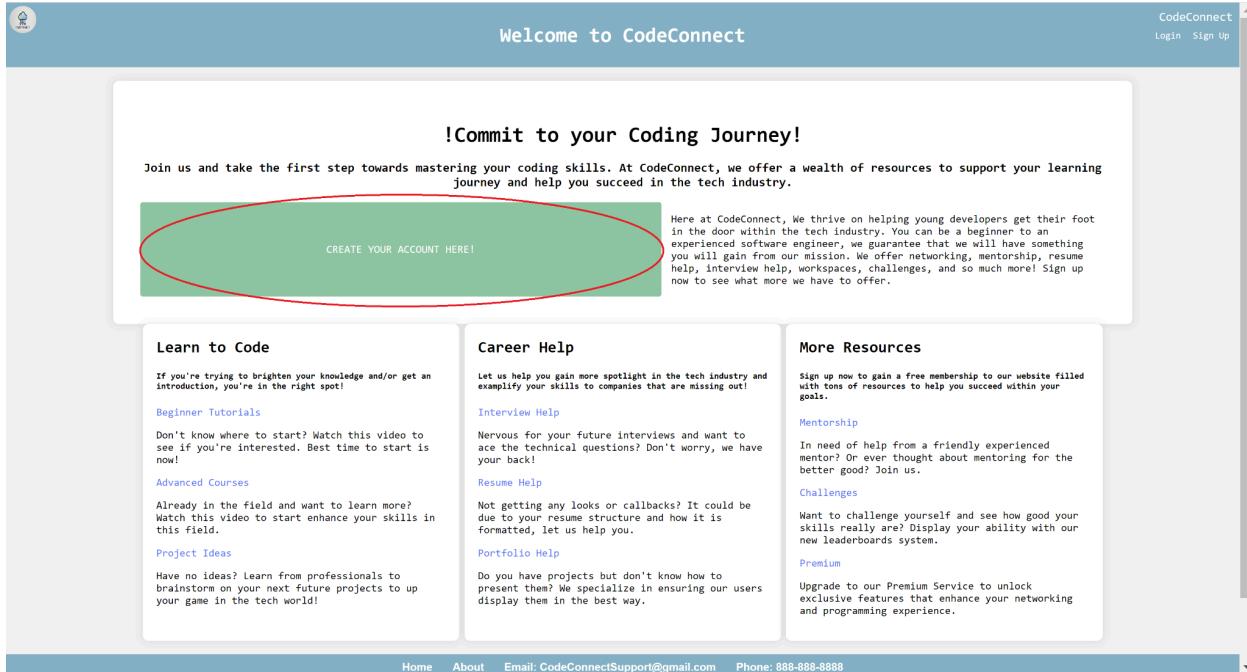
***3.6 Premium Users shall be able to check/update code challenge repo(^see note for 3.5)

2. Mentor Users:

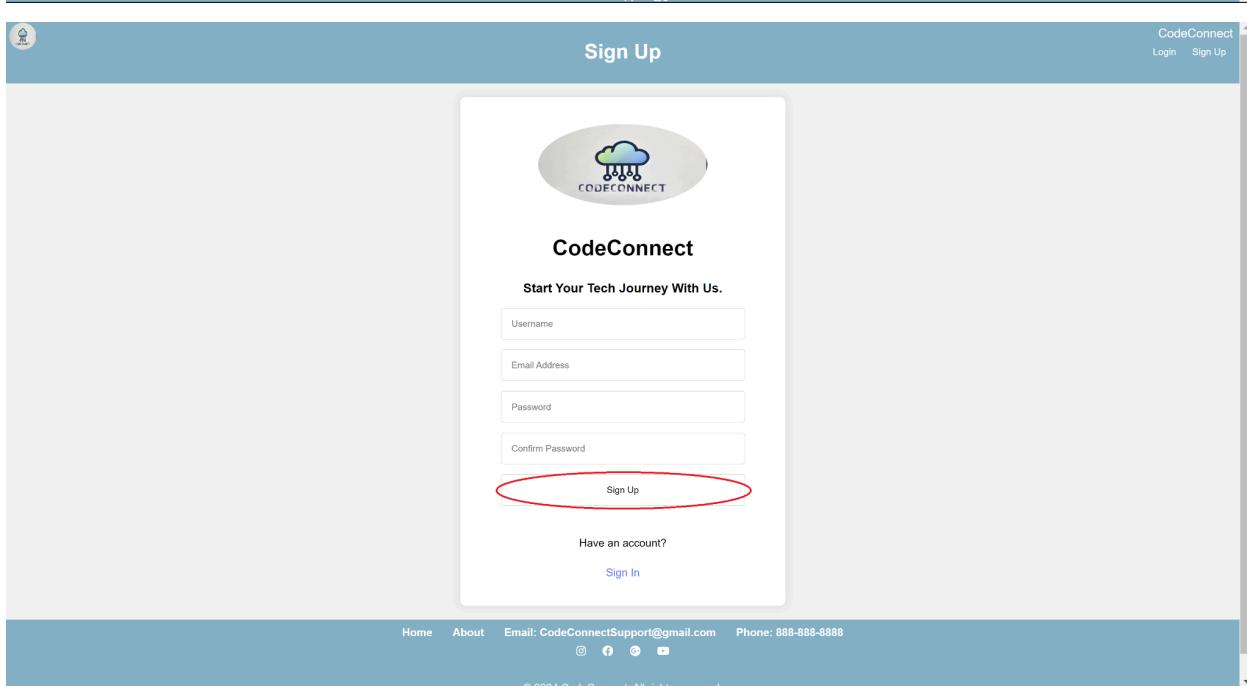
***4.2 Mentor Users shall be able to set up group work stations. (what is a group work station? Also potentially lower priority)

3. Wireframes Based on your Mockups/Storyboards (detailed)

Toby:



The wireframe shows the homepage of CodeConnect. At the top, there's a navigation bar with the CodeConnect logo, a search bar, and links for 'Login' and 'Sign Up'. The main header says 'Welcome to CodeConnect'. Below the header is a large call-to-action box with a green button labeled 'CREATE YOUR ACCOUNT HERE!' which is circled in red. The text inside encourages users to join and master their coding skills. To the right of this box is a detailed description of what CodeConnect offers, mentioning networking, mentorship, resume help, interview help, workspaces, challenges, and more. Below this are three main sections: 'Learn to Code', 'Career Help', and 'More Resources', each with its own sub-sections and descriptions.



The wireframe shows the sign-up page for CodeConnect. The header says 'Sign Up' and features the CodeConnect logo. The main form is titled 'CodeConnect' and asks users to 'Start Your Tech Journey With Us.' It contains four input fields: 'Username', 'Email Address', 'Password', and 'Confirm Password', with the 'Sign Up' button at the bottom which is circled in red. Below the form is a link to 'Have an account?' and a 'Sign In' link. The footer includes standard links for 'Home', 'About', 'Email: CodeConnectSupport@gmail.com', and 'Phone: 888-888-8888', along with social media icons.

The screenshot shows the top navigation bar of the Code Connect website. It includes a logo, the text "Home Page", and a sign-in/out section. Below the navigation bar, there is a red circle highlighting the "Challenges" link in the menu.

CodeConnect
Sign Out

Home Challenges Mentors Forums Memberships Premium Explore Workspaces Leaderboards Jobs

Welcome to Code Connect!

This is Code Connect, a premier social media app for coders. Code Connect creates a learning environment for people of all experience levels and brings a community together through experience. Here, you can create forum posts about your favorite topics, attempt coding challenges daily, make friends, workshop, gain a mentor or provide mentorship, and more!

See what Code Connect has in store for you today!

The screenshot shows the footer area of the Code Connect website. It includes links to "Home", "About", "Email: CodeConnectSupport@gmail.com", "Phone: 888-888-8888", and social media icons for GitHub, Facebook, LinkedIn, and YouTube. Below these links is the copyright notice "© 2024 CodeConnect. All rights reserved."

Home About Email: CodeConnectSupport@gmail.com Phone: 888-888-8888
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The screenshot shows a specific challenge page titled "Java Best Practices". The challenge is titled "Solve this SQL task." and asks the user to write a query to select all columns from a table named "Databases". A large red oval highlights the input field where the user would type their answer. Another red oval highlights the "Jobs" link in the navigation bar above the challenge area.

CodeConnect
Sign Out

Java Best Practices

Home Challenges Mentors Forums Memberships Premium Explore Workspaces Leaderboards Jobs Friends

Solve this SQL task.
Your task: Write a query to select all columns from a table named Databases.

Your Answer:

Submit

The screenshot shows the footer area of the Code Connect website, identical to the one in the previous screenshot, including links to "Home", "About", "Email: CodeConnectSupport@gmail.com", "Phone: 888-888-8888", and social media icons for GitHub, Facebook, LinkedIn, and YouTube. Below these links is the copyright notice "© 2024 CodeConnect. All rights reserved."

Home About Email: CodeConnectSupport@gmail.com Phone: 888-888-8888
© Facebook LinkedIn YouTube
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CodeConnect
Profile Sign Out

Job Listings

Home Challenges Mentors Forums Memberships Premium Explore Workspaces Leaderboards Jobs

TechNova Solutions

 Role: Java Developer
Languages: Java, Spring Boot
About: TechNova Solutions is a leading tech firm specializing in innovative software solutions for businesses worldwide.

Apply Now

QuantumLeap Systems

 Role: Frontend Developer
Languages: JavaScript, React
About: QuantumLeap Systems is known for creating cutting-edge web applications and providing exceptional user experiences.

Apply Now

Innovatech Dynamics

 Role: Backend Developer
Languages: Python, Django
About: Innovatech Dynamics focuses on developing robust backend systems and APIs for large-scale applications.

Apply Now

Home About Email: CodeConnectSupport@gmail.com Phone: 888-888-8888

CodeConnect
Profile Sign Out

Search...

Job Application

Home Challenges Mentors Forums Memberships Premium Explore Workspaces Leaderboards Jobs

Personal Information

Full Name

Email Address

Phone Number

Address

Educational Background

Highest Degree

Institution

Year of Graduation

Work Experience

Company Name

Job Title

Duration

Work Experience

Company Name

Job Title

Duration

Description

Skills

List your relevant skills

Cover Letter/Resume

Upload your cover letter/resume (PDF only)

Choose File | No file chosen

Submit Application

Home About Email: CodeConnectSupport@gmail.com Phone: 888-888-8888

Welcome to CodeConnect

!Commit to your Coding Journey!

Join us and take the first step towards mastering your coding skills. At CodeConnect, we offer a wealth of resources to support your learning journey and help you succeed in the tech industry.

CREATE YOUR ACCOUNT HERE!

Learn to Code

If you're trying to brighten your knowledge and/or get an introduction, you're in the right spot!

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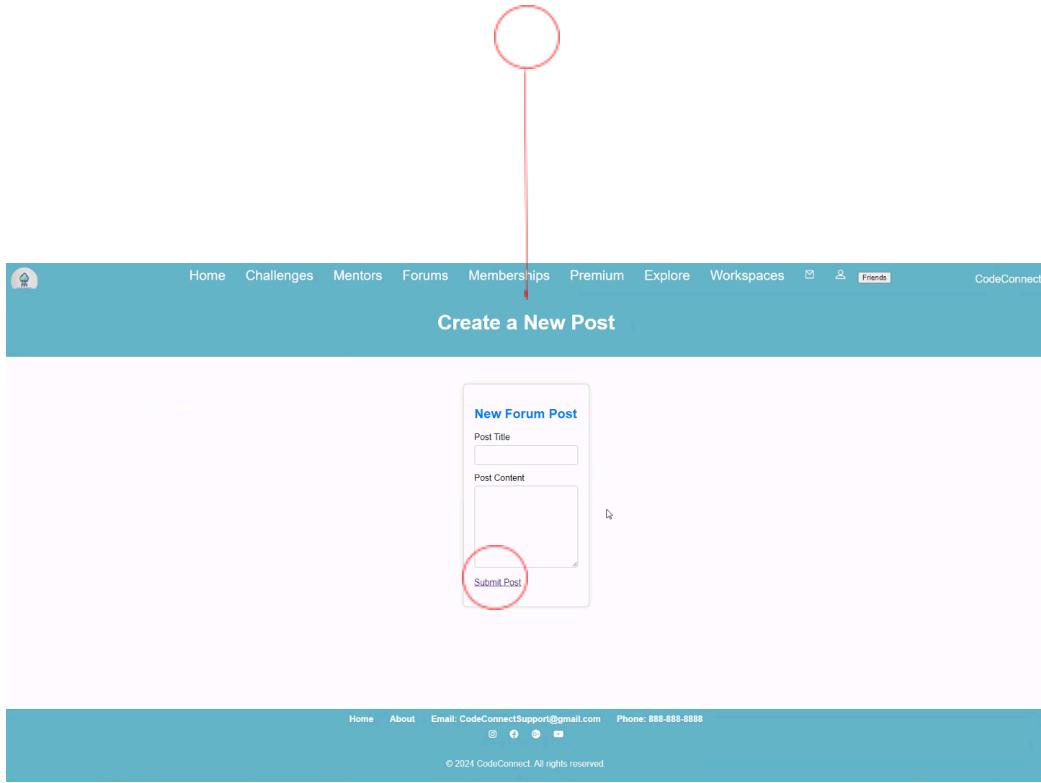
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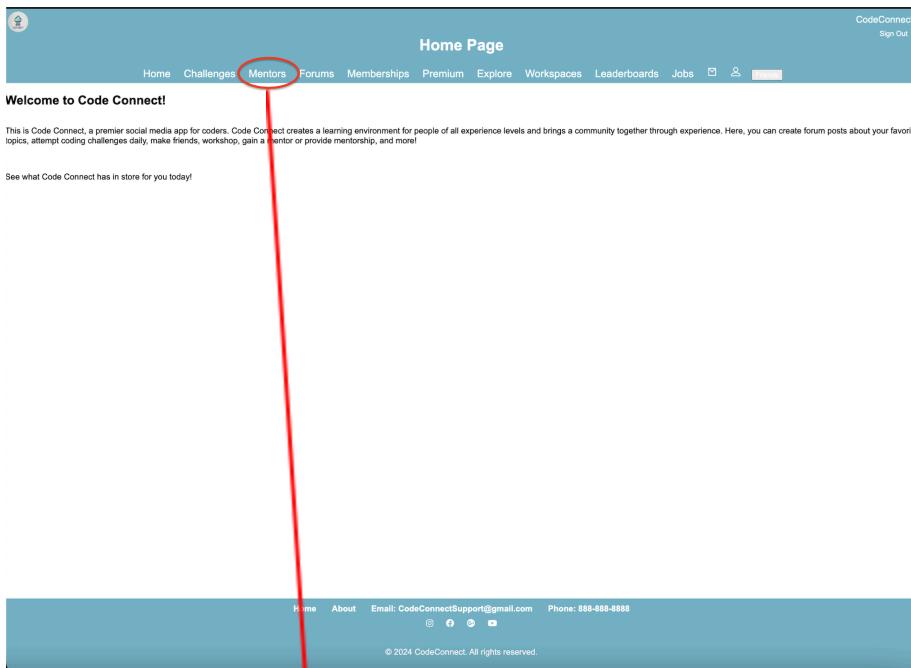
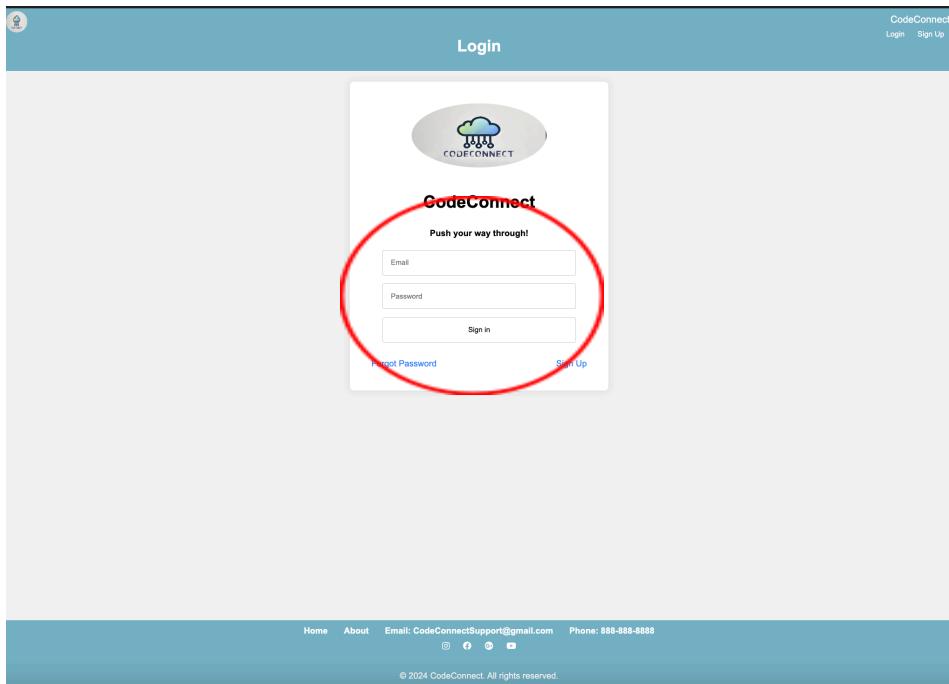
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2 years of experience
Software Engineer



Shez
4 years of experience
Frontend Developer at BigC



Phillip
10 years of experience
AI Cloud Engineer at Google



Aaron
5 years of experience
Data Scientist at Facebook

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Max (Profile Picture) Shez (Profile Picture) Phillip (Profile Picture) Aaron (Profile Picture)

Reviews

★★★★★ "Great experience!" - Noah

★★★★★ "Very helpful." - William

★★★★★ "Learned a lot!" - Ghadeer

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Profile

John Doe
@johndoe

Bio
No bio available.

About
No information available.

Activity / Forum Posts
No activity or forum posts yet.

Position / Leaderboard
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Leaderboard

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User	Role	Completed Challenges
John	Java Pro	completed 20 challenges
Alice	Python Guru	completed 15 challenges
Bob	JavaScript Enthusiast	completed 12 challenges
Dave	Ruby Programmer	completed 10 challenges
Frank	PHP Specialist	completed 9 challenges
Carol	CF Developer	completed 8 challenges
Eve	Swift Coder	completed 6 challenges
Lenny	C++ Apprentice	completed 4 challenges

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Java Best Practices
Discuss the best practices for writing clean, efficient, and maintainable Java code.

JavaScript Tips and Tricks
Share and learn the most useful tips and tricks for mastering JavaScript.

C++ Performance Optimization
Explore techniques and tools for optimizing C++ code for performance.

React Beginners Guide
A forum for beginners to discuss and learn about React.js.

SQL Query Optimization
Tips and tricks for writing efficient and optimized SQL queries.

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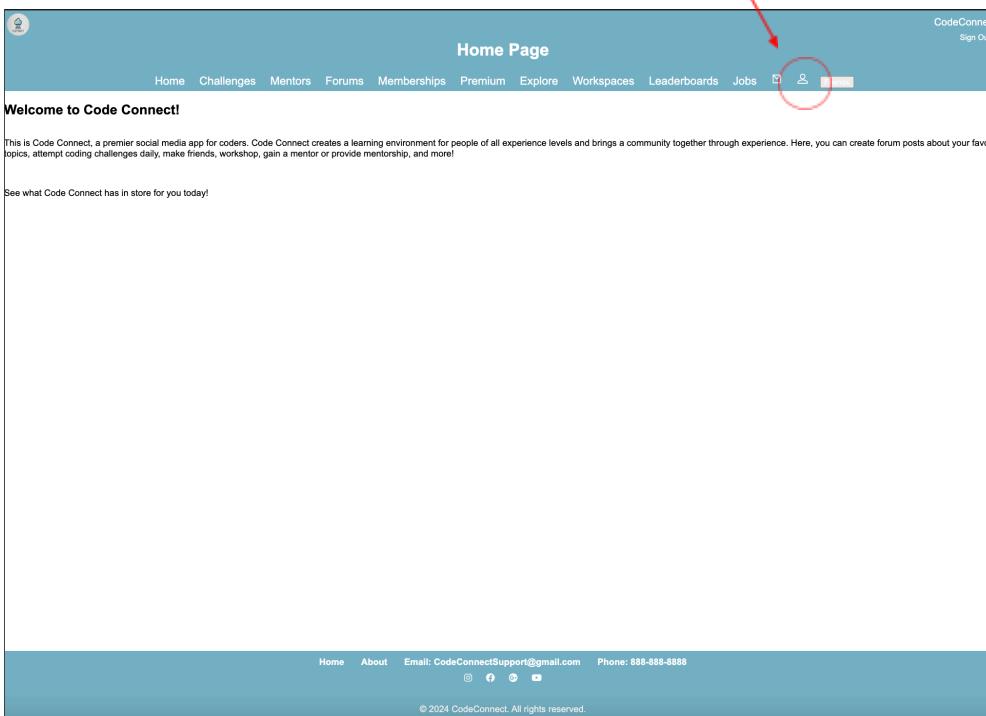
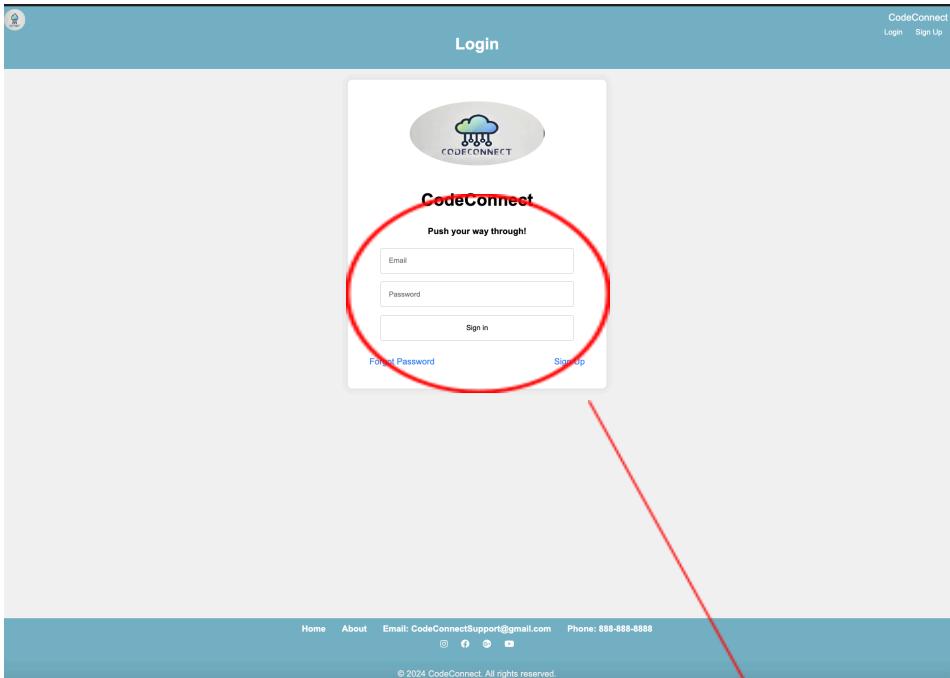
Create a New Post

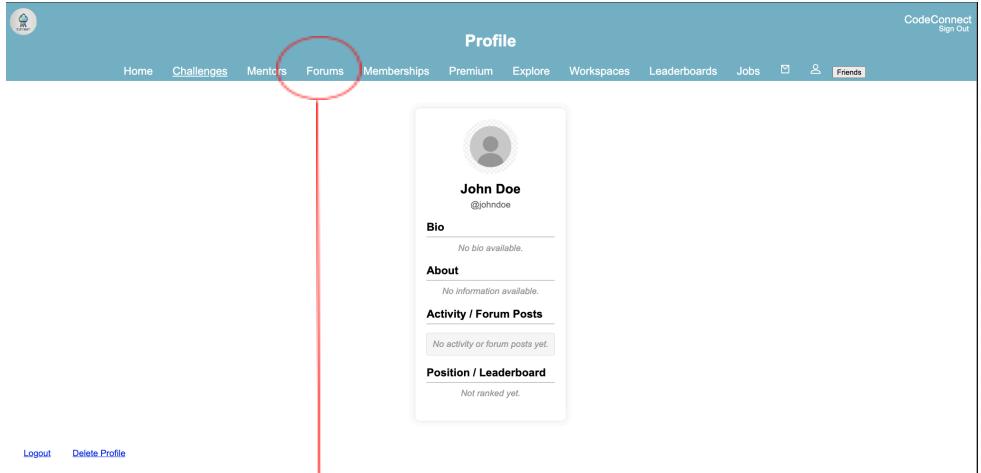
New Forum Post

Post Title

Post Content

Josh:





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John Doe
@phndoe

Bio
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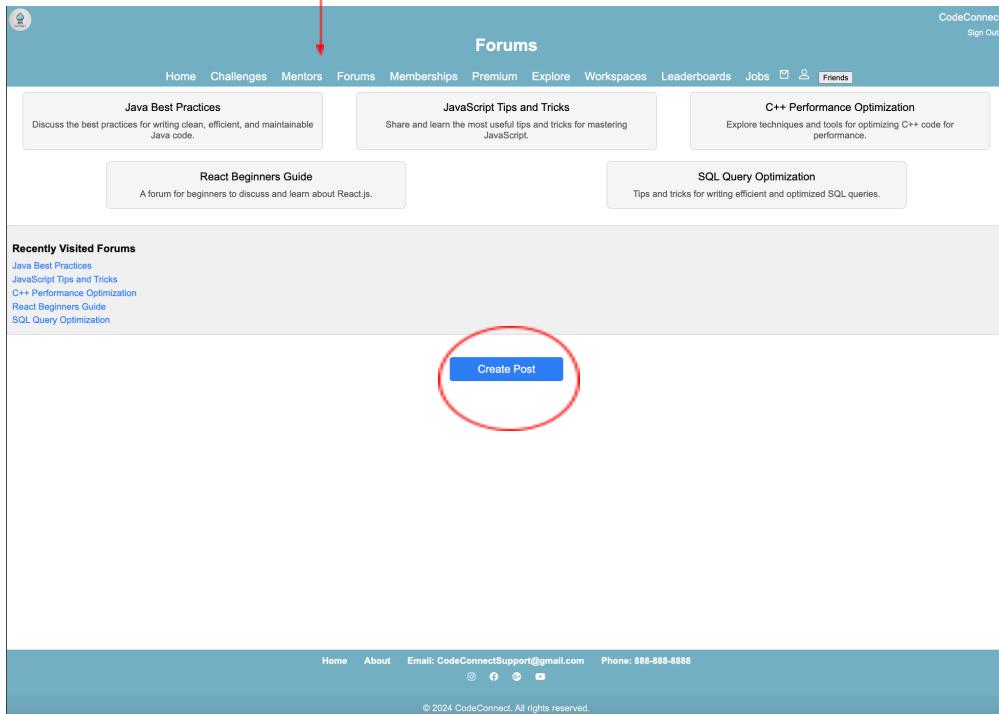
About
No information available.

Activity / Forum Posts
No activity or forum posts yet.

Position / Leaderboard
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SQL Query Optimization
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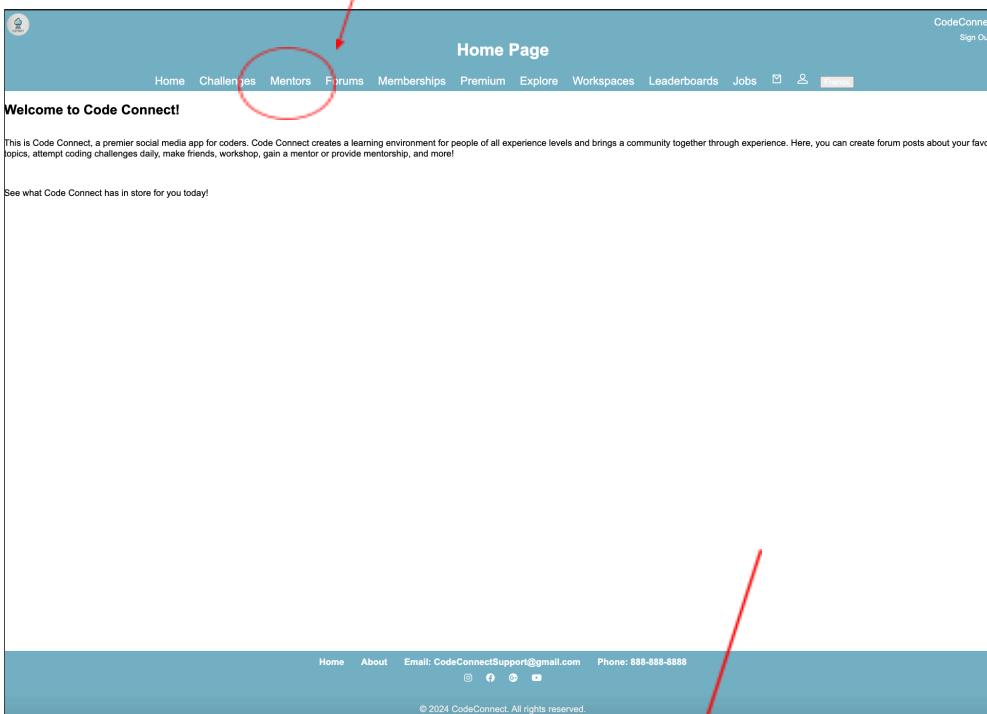
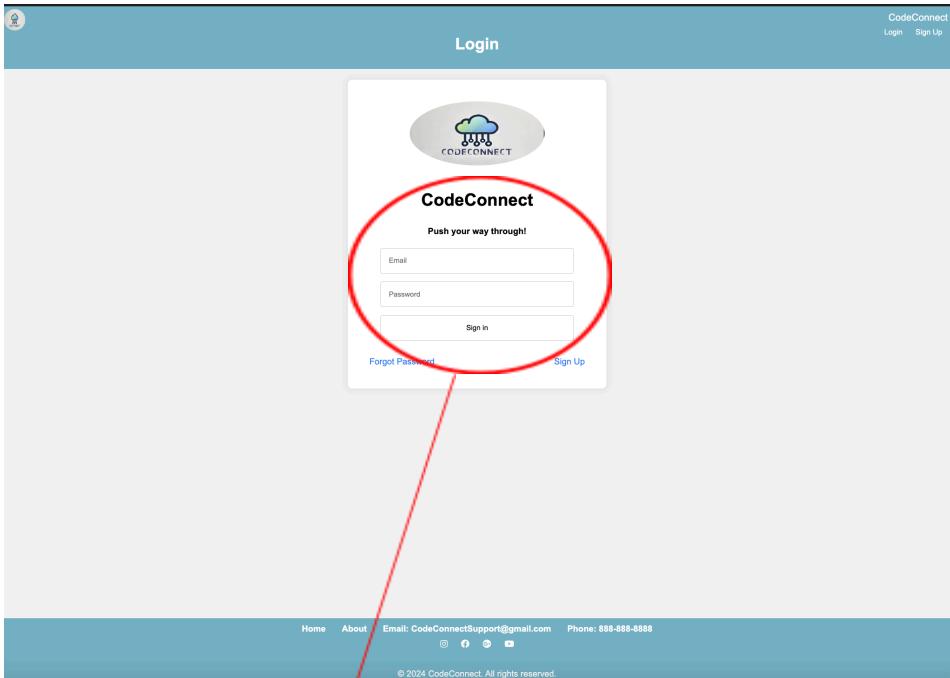
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Max



Shez



Phillip



Aaron

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 "Great experience!" - Noah

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2 years of experience
Software Engineer



Shez
4 years of experience
Frontend Developer at BigC



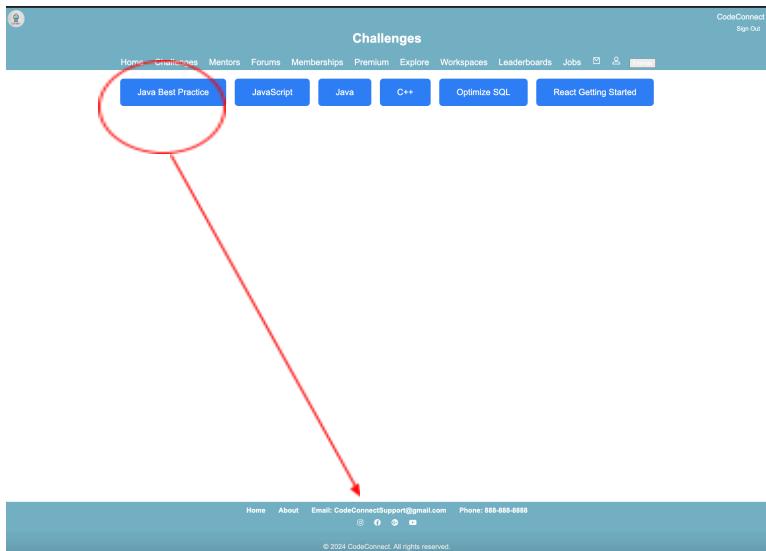
Phillip
10 years of experience
AI Cloud Engineer at Google



Aaron
5 years of experience
Data Scientist at Facebook

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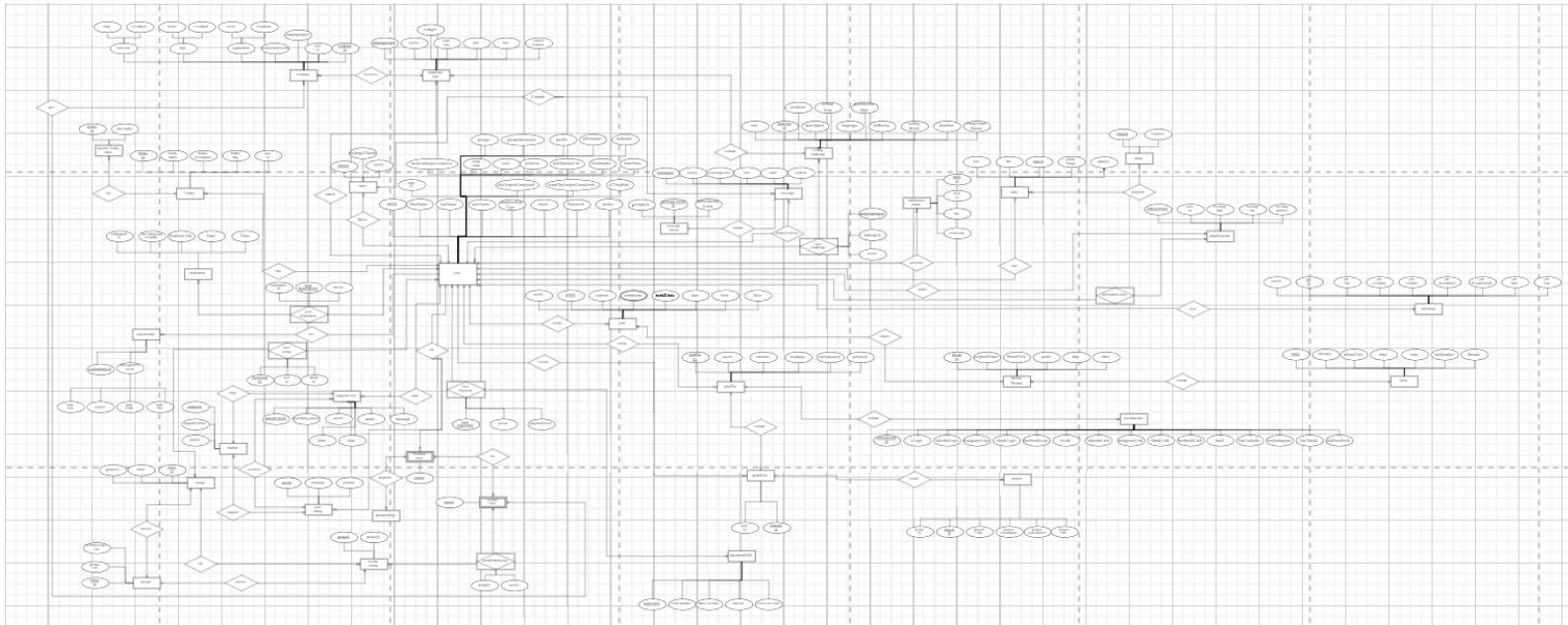


The screenshot shows the Java Best Practices challenge page. At the top, there is a navigation bar with links for Home, Challenges, Mentors, Forums, Memberships, Premium, Explore, Workspaces, Leaderboards, Jobs, and Friends. On the far right of the top bar, it says "CodeConnect" and "Sign Out". Below the navigation bar, the page title is "Java Best Practices". In the center, there is a challenge box with the heading "Solve this quick JavaScript problem!". It asks, "Your Question: What is javascript used for?" followed by an input field. Below the input field, it says "Your Answer:" followed by another input field. A "Submit" button is located at the bottom of this form. The entire challenge box is circled in red.

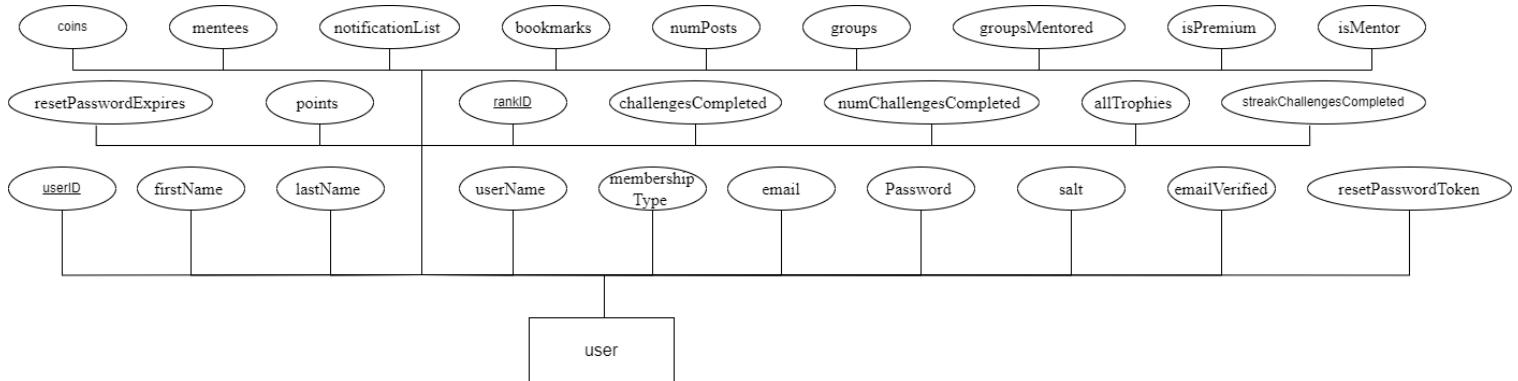
4. High level database architecture and organization (detailed) ERD:

1) overView ERDV2 Draw Io link:

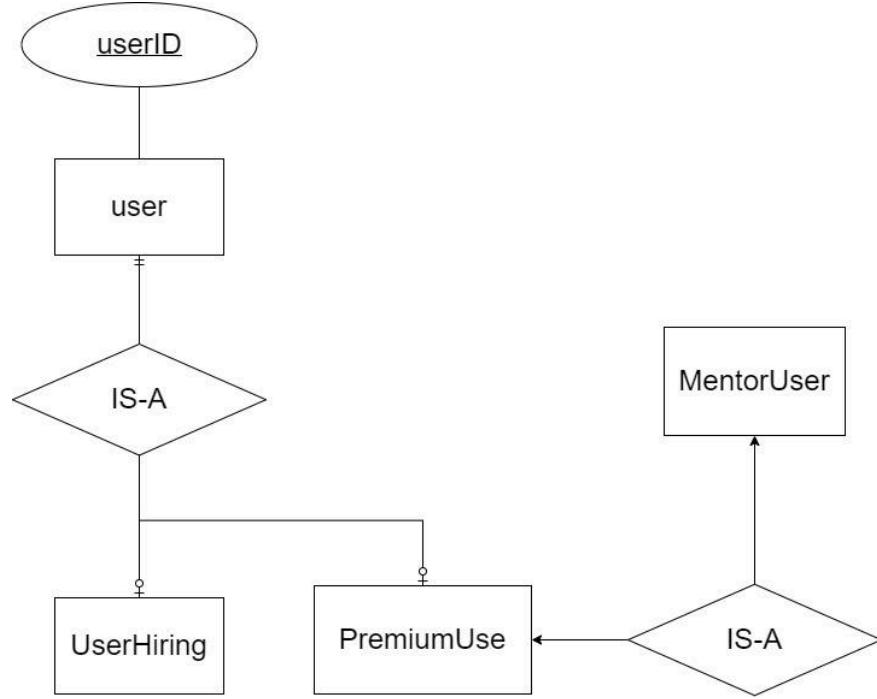
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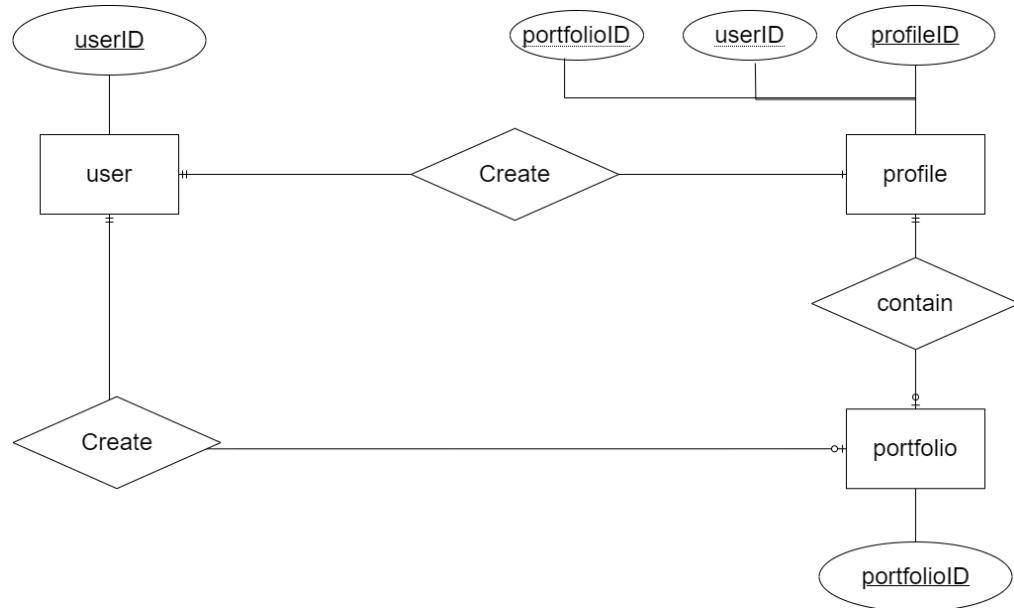
2) User table



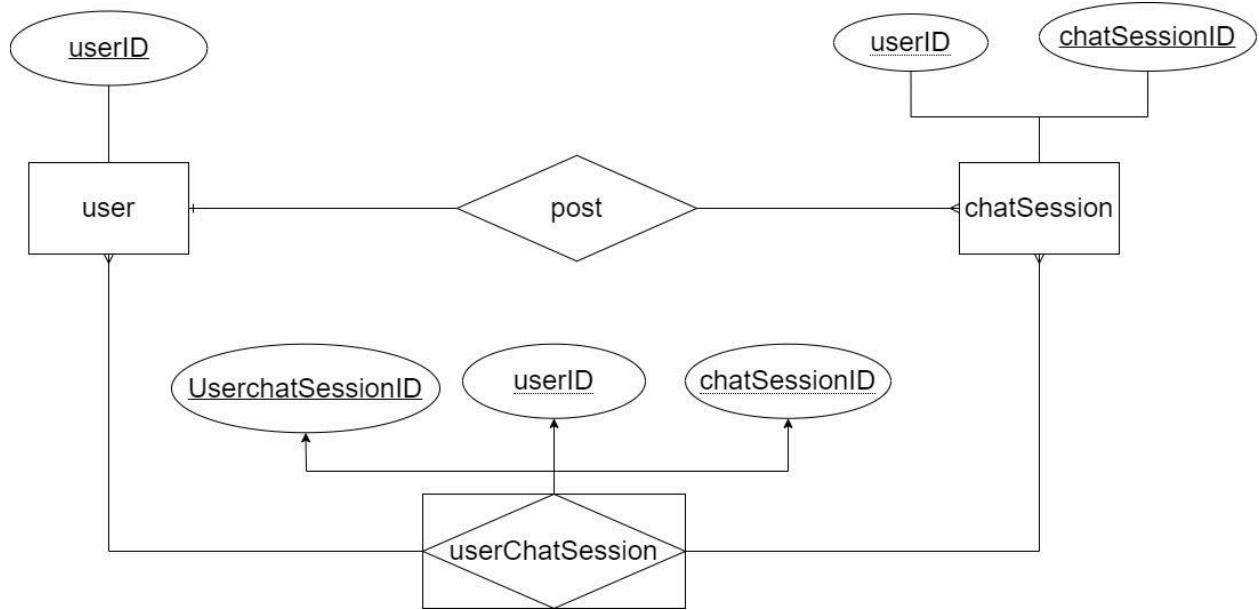
3) Inheritance



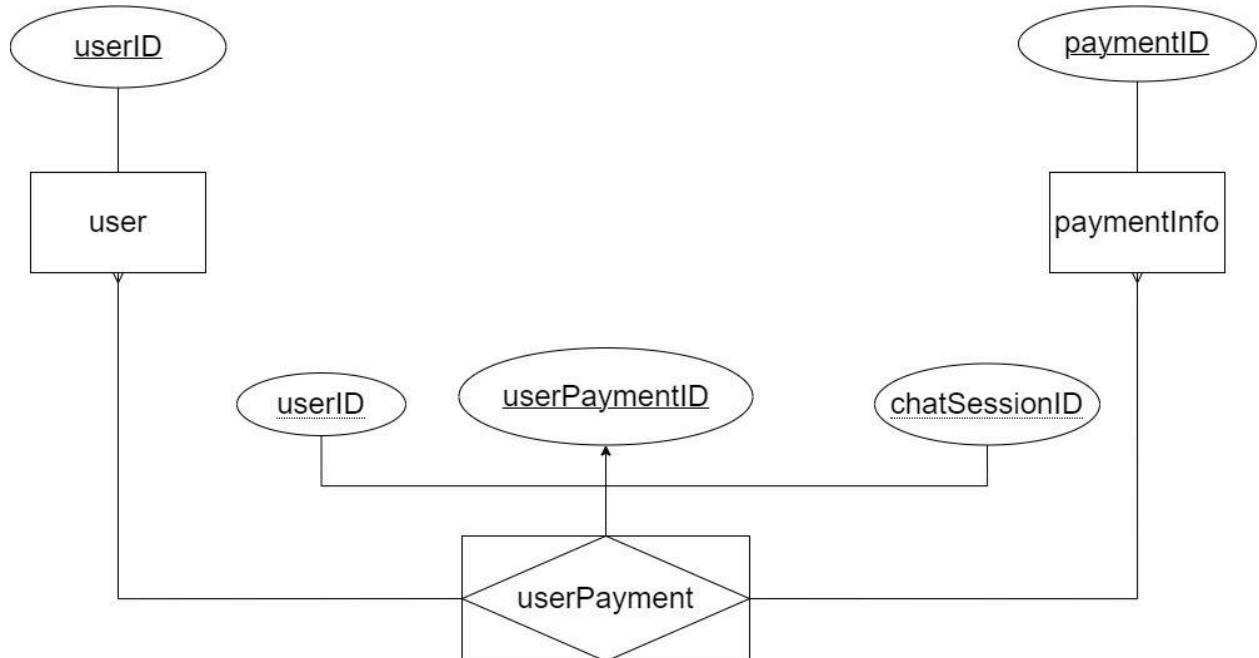
4) user, Profile and portfolio relationship



5) ChatSession and userChatSession

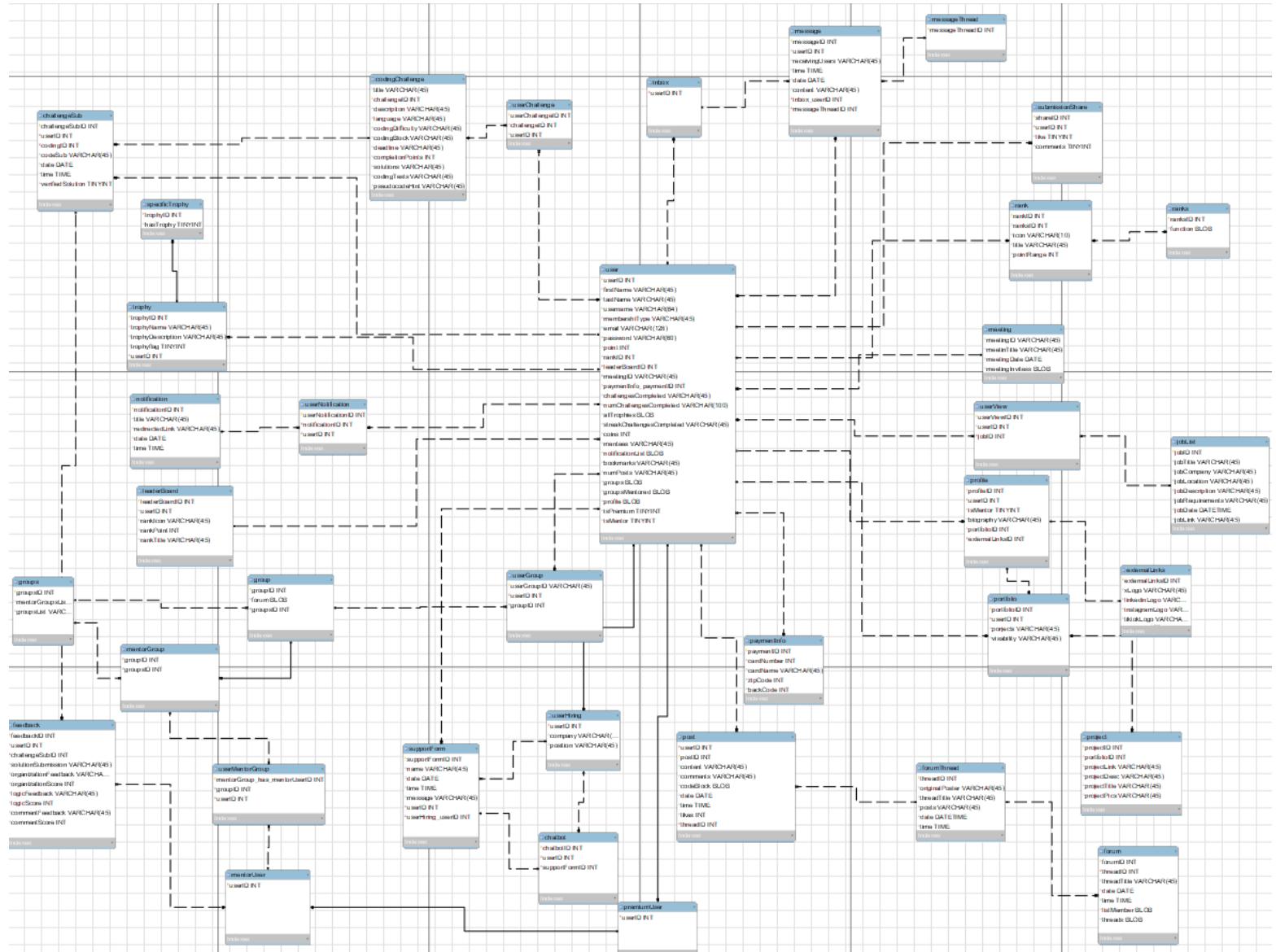


6) PaymentInfo and userPayment



EER:

1. Overview

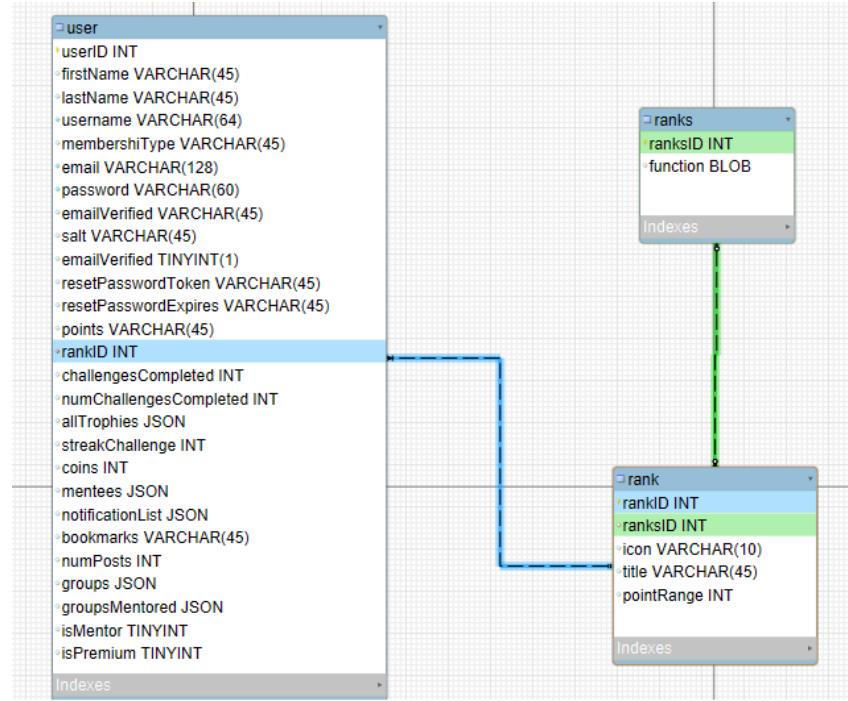


github link:

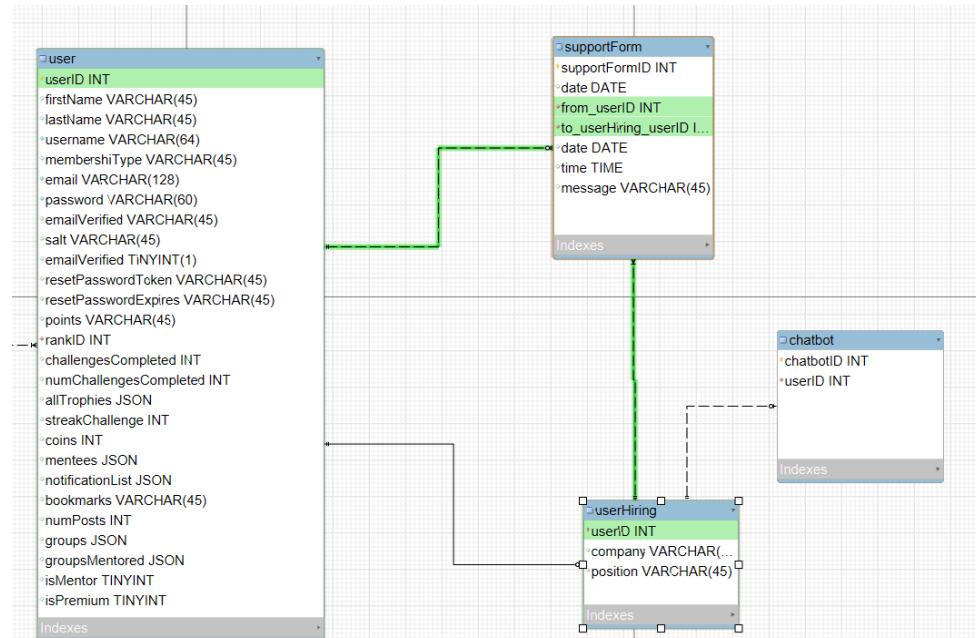
https://github.com/sfsu-joseo/csc648-848-05-sw-engineering-su24-T1/blob/will-backend-dev/application/server/db/High_level_database_architecture/EERv2.mwb

folder: application/server/db/High_level_database_architecture/ EERv2.mwb

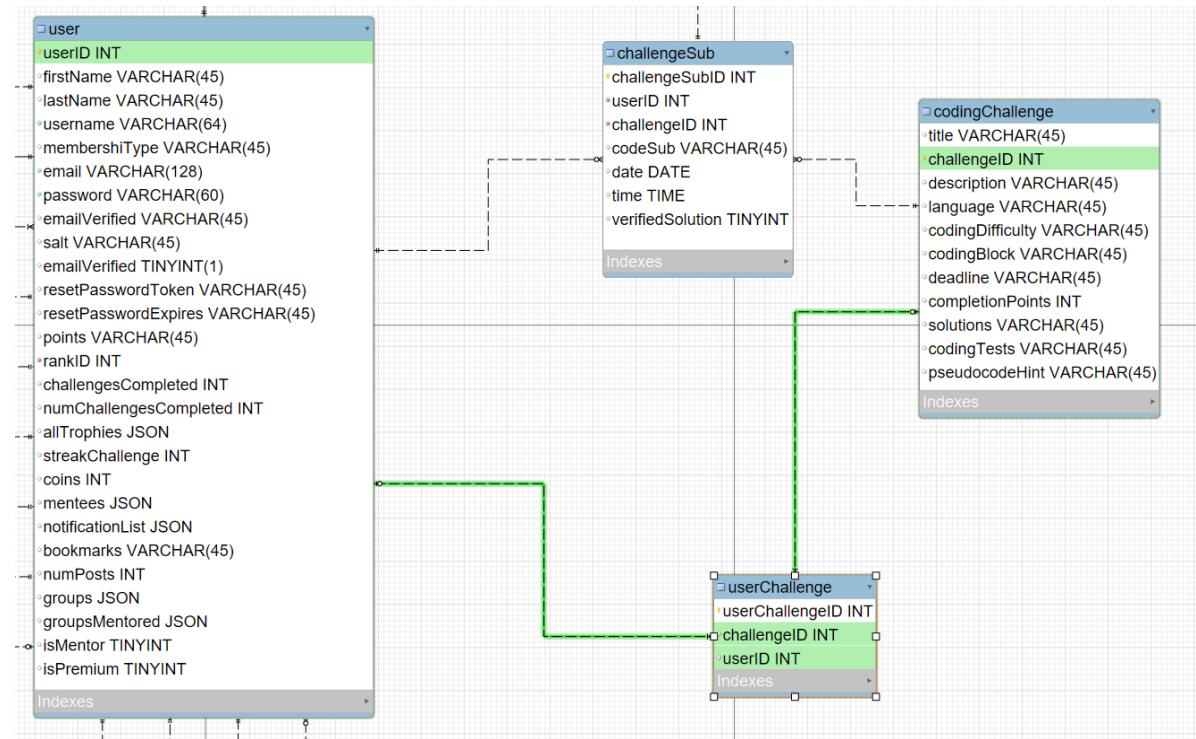
1.1. Ranks and rank



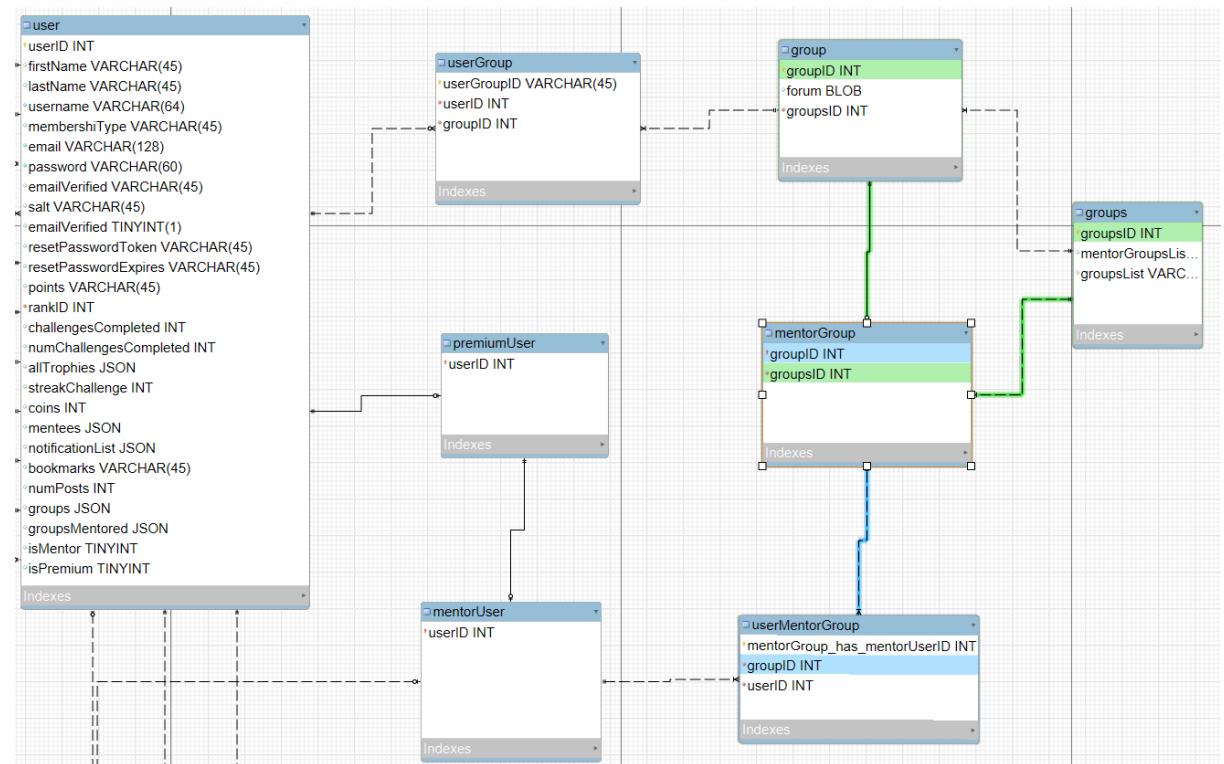
1.2. userHiring and support form



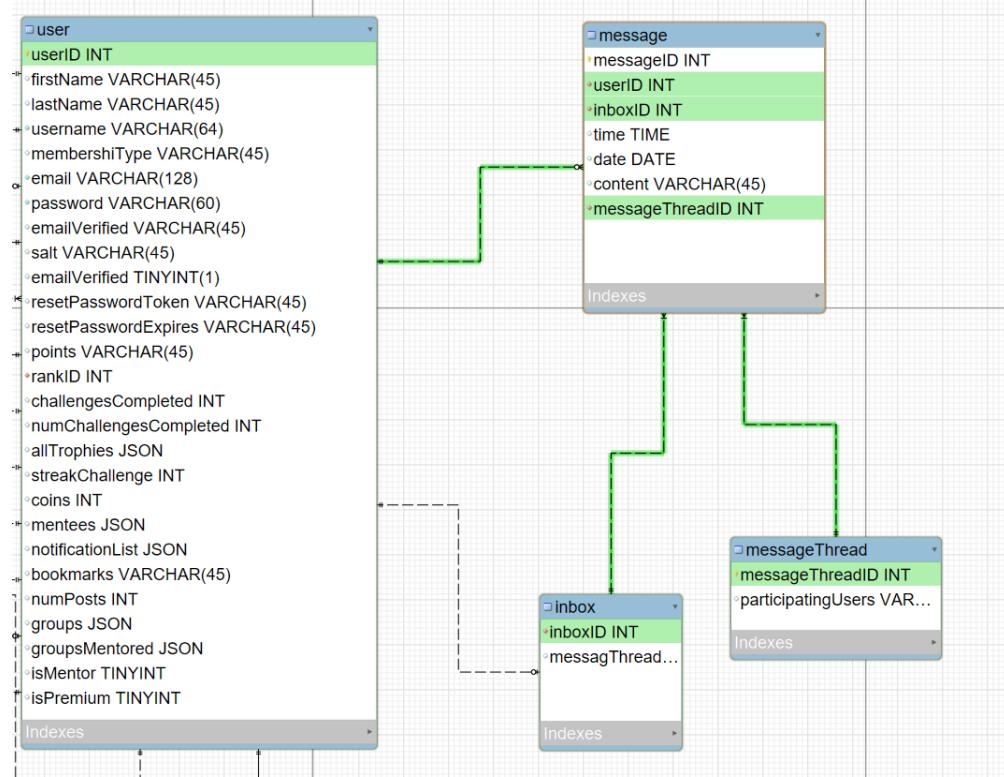
1.3. UserChallenge , codingChallenge and challengeSub



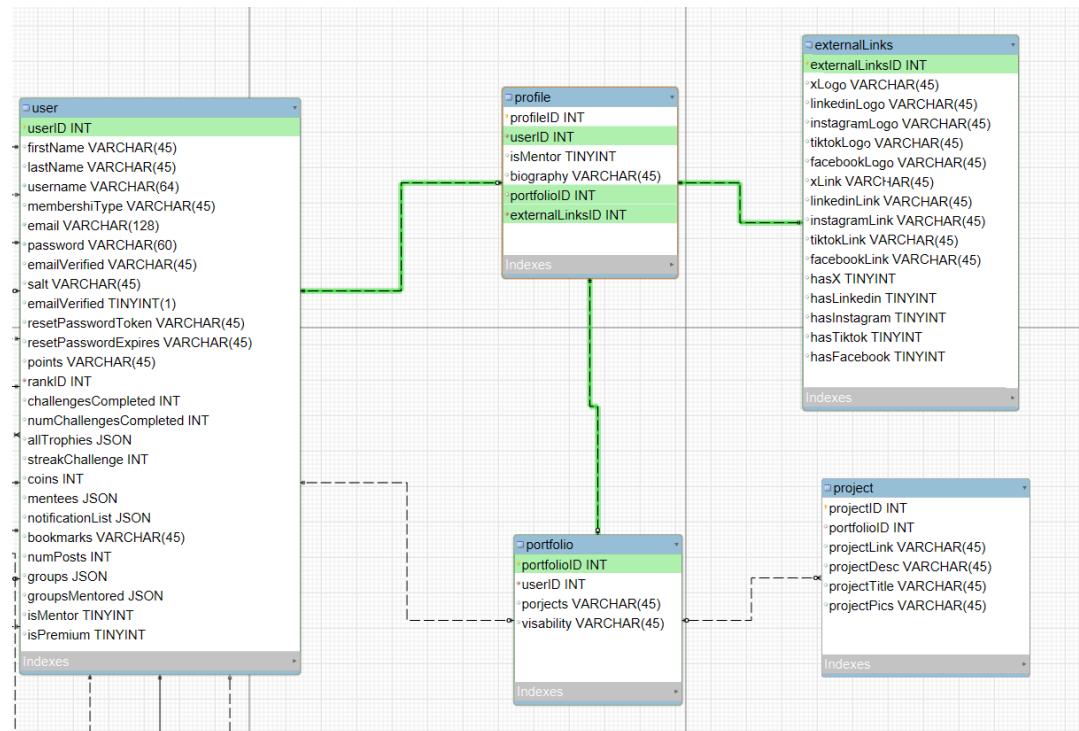
1.4. Group



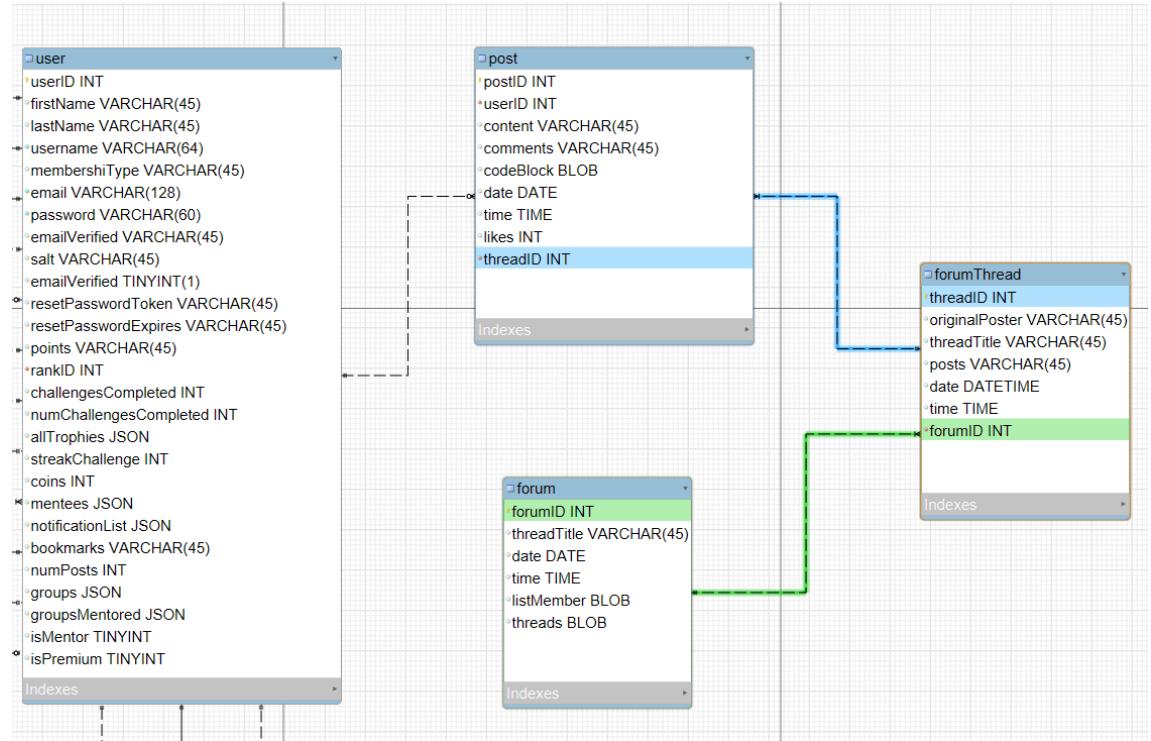
1.5. Message and inbox



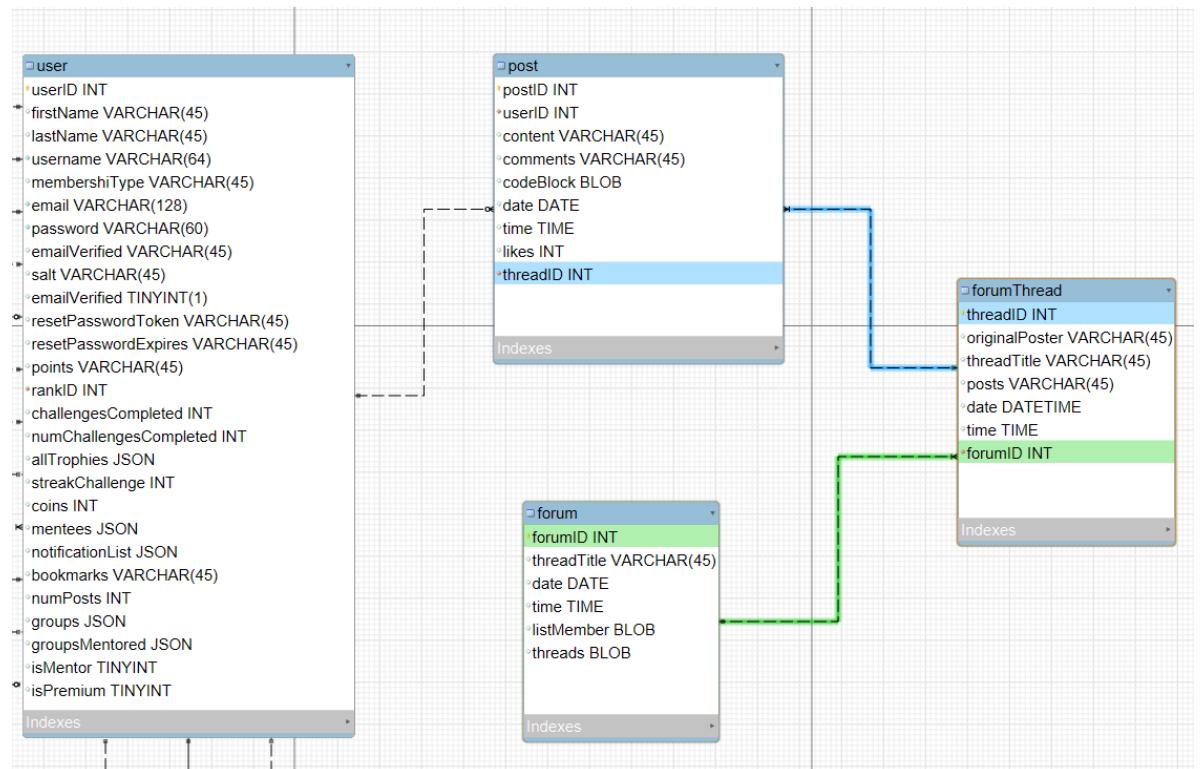
1.6. Profile, portfolio project and external link



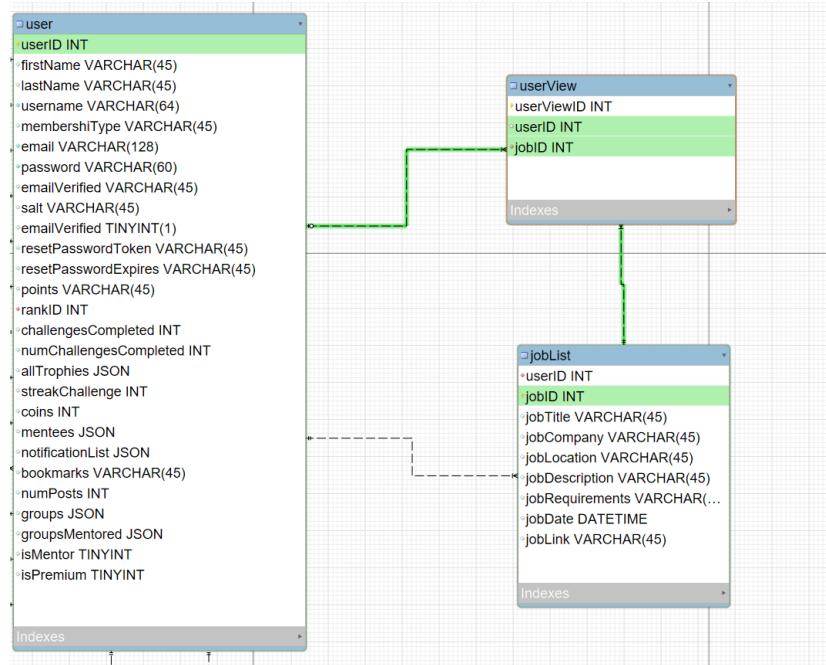
1.7. Post, forumThread,forum



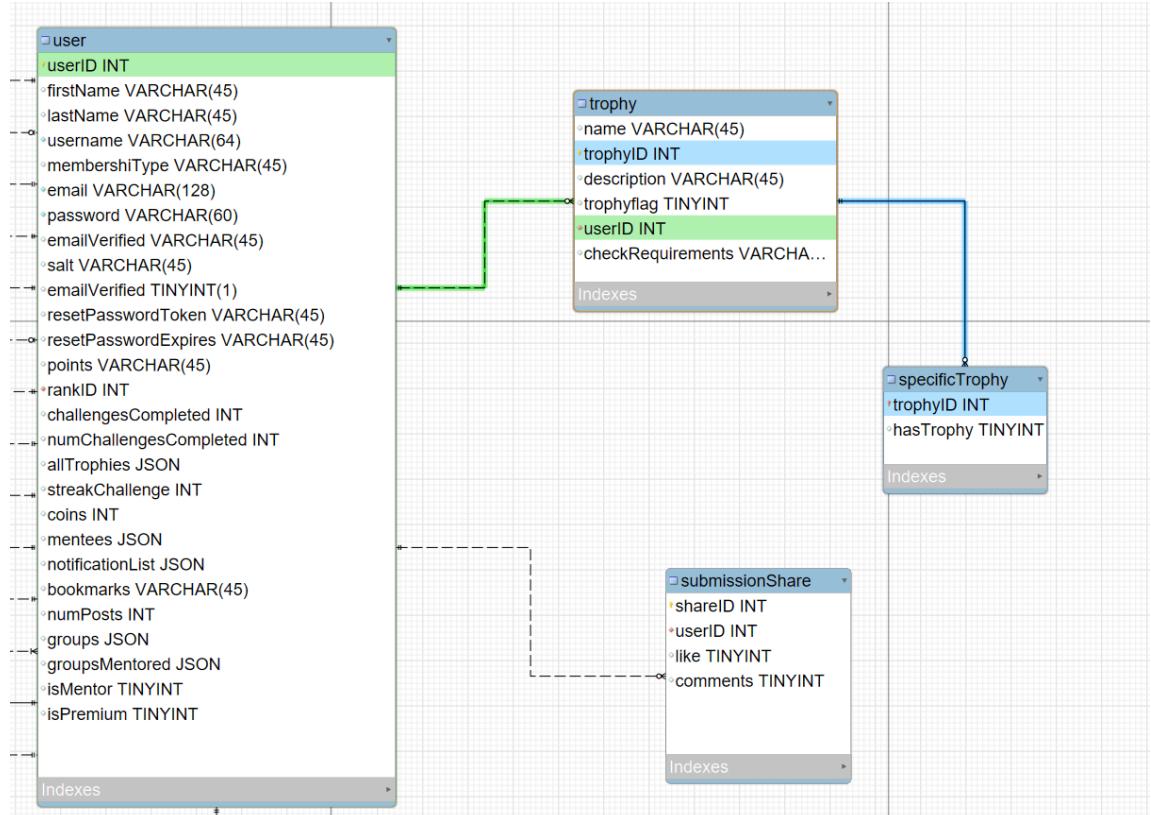
1.8. Notification



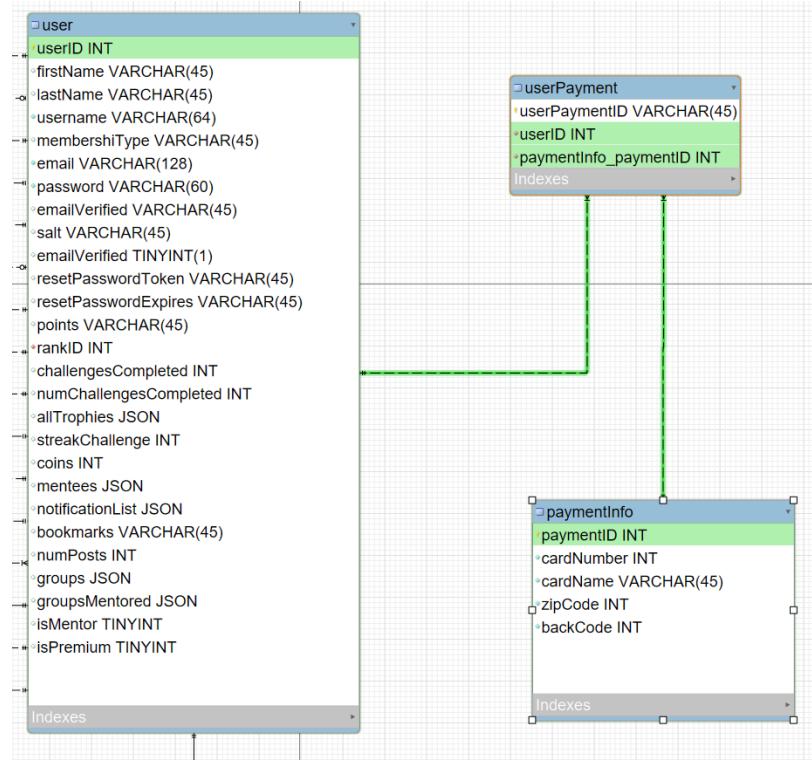
1.9. jobList and userView



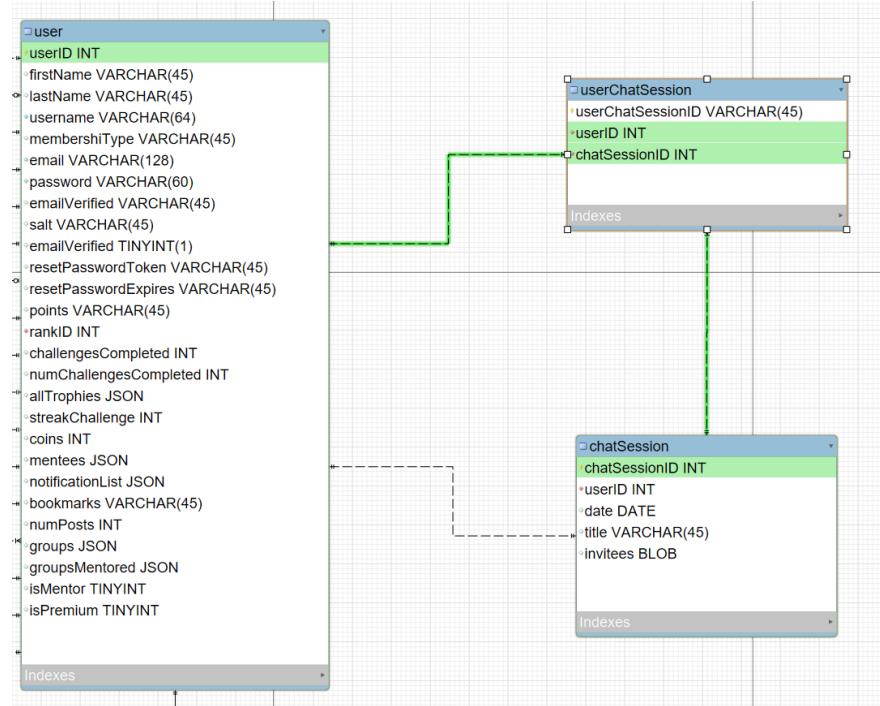
1.10. Trophy and submission share



1.11. Payment and userPayment



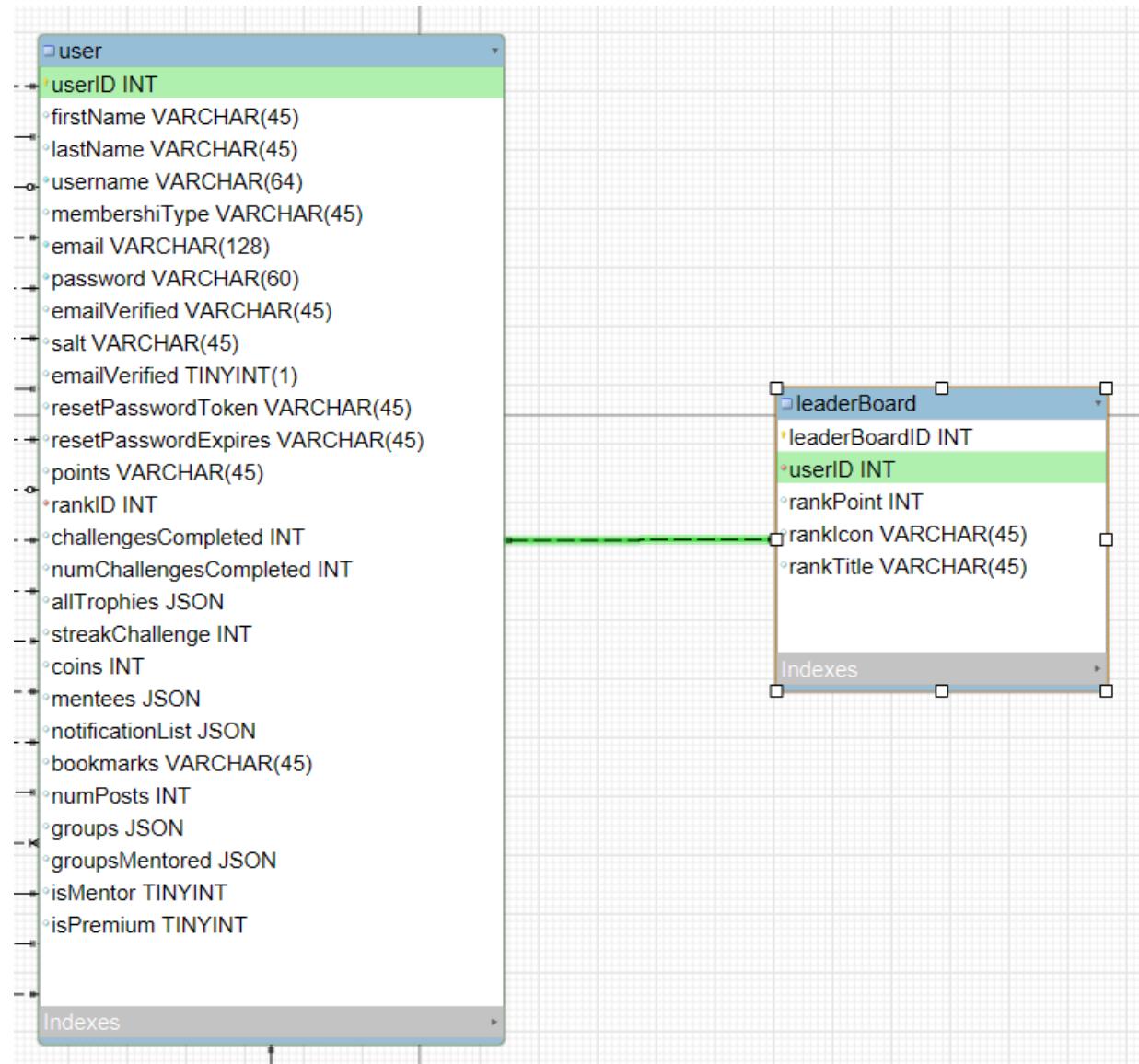
1.12. chatSession



1.13. leaderBoard (it need to updated)

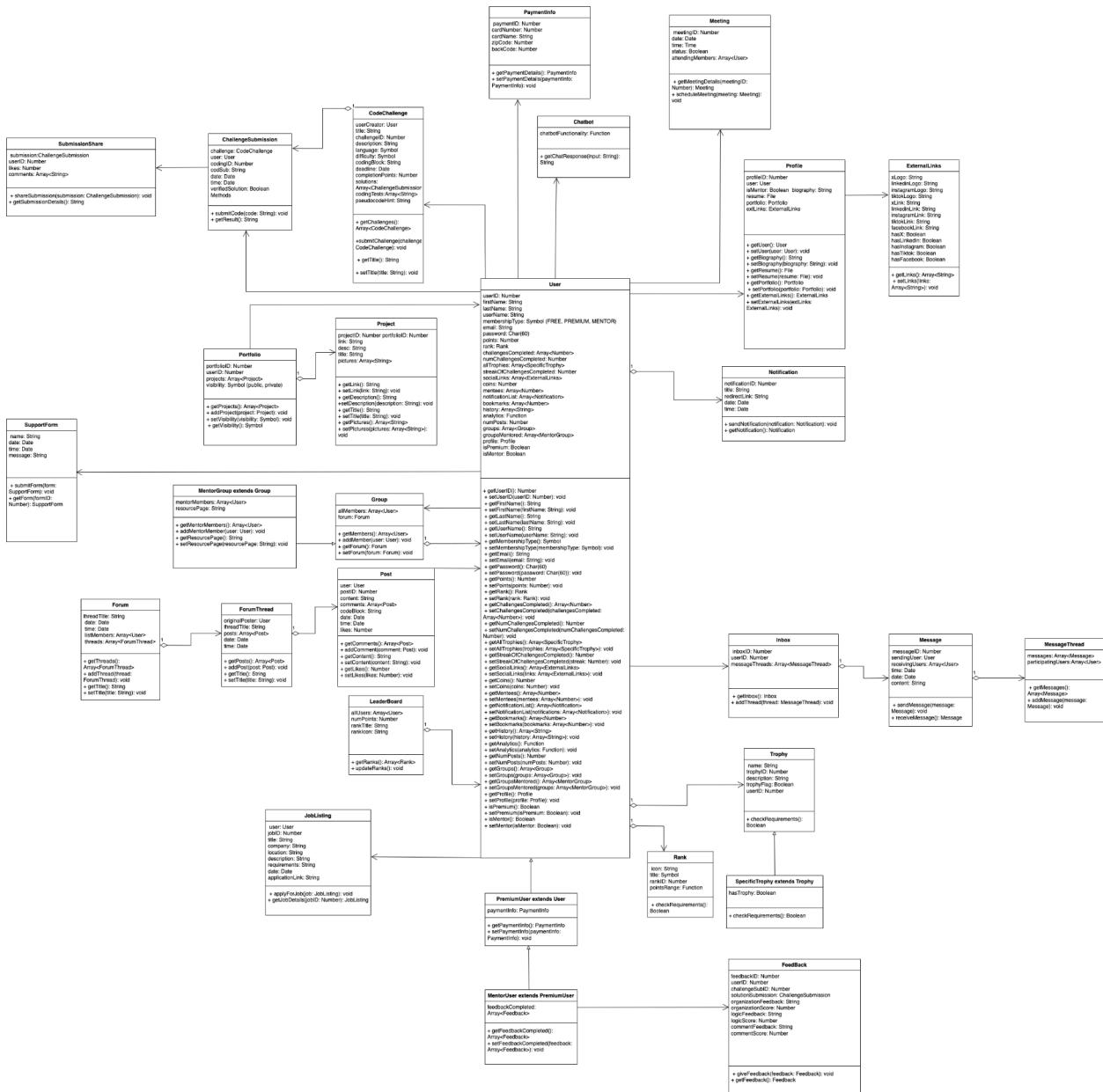
1.13.1. A leaderboard belong to many user

1.13.2. A user has one leaderboard

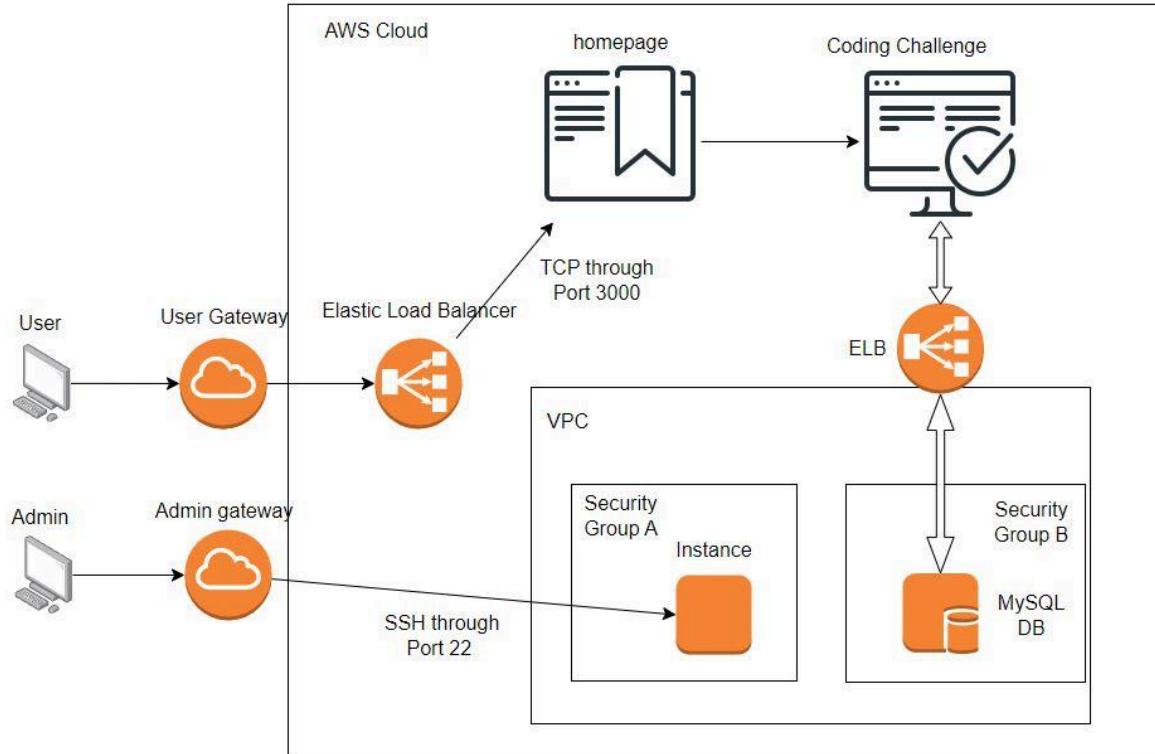


5. High Level Diagrams (detailed)

UML:



Network Diagram:



6. List of Contributions in this milestone (detailed including contributions to the horizontal prototype)

Max Shigeyoshi: (6/10)

- Corrected search functionality
- Backend-frontend integration
- Milestone 3 document creation
- Merging branches to integration then to master.

Aaron Rayray(7/10):

- Updated css for all pages
- HTML Files : Splash, Workspace, Java best practices, Java, Javascript, Store, Room1-15, React getting started
- Header configurations for all pages
- Footer configuration for all pages

- Creating scripts for pages that needed redirecting

Noah Hai: (7/10)

- Created mentor pages,
- Created premium page
- Created book a mentor page
- Created find a mentor page

Shez Rahman: (9/10)

- Backend-frontend integration
- Corrected sign in and sign up features
- Corrected email verification
- Corrected forgot password function
- Troubleshoot all sections of code

Ghadeer Al-Badani: (9/10)

- Refactored coding style
- Troubleshoot backend sections of code
- Assisted in search functionality
- Frontend backend integration
- Created commenting standard

Majd Alnajjar: (8/10)

- Created a leaderboard where users can view other's accomplishments with the ability to open profiles
- Created a job posting page where companies post hiring opportunities
- Created an application page where users can apply for said company
- Created profile pages for 8 mock users on the leaderboards
- Added a blank profile picture to profile.html
- HTML Files: alice.html, bob.html, dave.html, carol.html, frank.html, eve.html, john.html, lenny.html, leaderboards.html, jobs.html, application.html
- Wireframe for toby

William Pan: (8/10)

- Managed Mysql database
- Updated models to create database schemas
-

Phillip Ma: (7/10)

- Css style changes for all pages
- Search function integration
- Profile, forgot password, forgot password verification, homepage, inbox, explore, challenges
- Wireframes
- Frontend backend integration