

# SW Engineering CSC648-848-05 Spring 2023

## DebugMe

### Team 02

Emilee Padilla - Team Lead

[emann@mail.sfsu.edu](mailto:emann@mail.sfsu.edu)

Jijeong Lee - Frontend Lead

Cristobal Padilla - GitHub Lead

Matthew Bush - Backend Lead

Khayotbek Azimov - Cloud Lead

Jeffrey Ma - Database Lead

Hector Magallanes - Document Editor Lead

### Milestone 3

04/27/2023

### History Versions Table

Revision	Date
m3V2	05/18/23
m3V1	04/27/23
m2V2	04/27/23
m2V1	03/31/30
m1V2	04/18/23
m1V1	02/23/23

# Table of Contents

<b>1. Data Definitions</b>	<b>3</b>
<b>2. Prioritized Functional Requirements</b>	<b>5</b>
<b>3. Wireframes Based on your Mockups/Storyboards</b>	<b>8</b>
<b>4. High level database architecture and organization</b>	<b>17</b>
ERD Diagram	17
EER Diagram	18
<b>5. High Level Diagrams</b>	<b>19</b>
UML Diagram	19
Deployment Diagram	20
Network Diagram	21
<b>6. List of Contributions</b>	<b>22</b>

# 1. Data Definitions

## 1. User types:

- 1.1. **Unregistered Users:** An unregistered user is a person who accesses DebugMe without creating an account. Unregistered users have limited access to the site and functions compared to registered users.
- 1.2. **Registered Users:** A registered user is a person who has registered an account on DebugMe by providing an email and creating a password. Registered users have access to more features and functions compared to unregistered users.
  - 1.2.1. **General Users:** A general user is a subcategory of a registered user who has the basic level of access to DebugMe features and functions. General users have less permission than Premium users and Mentors but more permissions than unregistered users.
  - 1.2.2. **Premium Users:** A premium user is a subcategory of a registered user who has paid for access to additional features or content that are not available to general users. Premium users have access to exclusive content such as premium guides at the price of a one time cost or subscription fee depending on the feature.
  - 1.2.3. **Mentors:** Mentors are the authors of DebugMe's Premium Guides. They also provide Premium Users with specialized services, such as resume reviews and mock interviews, during Mentoring Sessions.
  - 1.2.4. **Admin:** Admins handle customer service requests, from reports about inappropriate content to refund requests.

## 2. User Profile: User profiles contain personal information about each registered user, including their profile picture and items related to their activity within the site.

- 2.1. **Subscription Plan:** Free or Premium plan
- 2.2. **List of upcoming Mentoring Sessions:** Premium users only.
- 2.3. **List of upcoming Events:** Events the user is participating in.
- 2.4. **List of saved Posts**
- 2.5. **List of saved Premium Guides**
- 2.6. **Notifications:** For activity related to the services the user participates on. e.g. comments on their posts, for reviews left on Mentors' Premium Guides, etc.
- 2.7. **Admin user profile:** Admins have an additional section on their profile to manage customer service requests
  - 2.7.1. **List of user reports about inappropriate content:** Admins have the responsibility to remove user made content that violates the site's policies
  - 2.7.2. **List of user refund requests:** Admins process and approve/deny user requests for refunds after unsatisfactory Premium services like Mentoring Sessions
- 2.8. **Mentor User Profile:** Mentors have an additional section on their profile dedicated to the feedback their Mentees provide

- 2.8.1. Mentor Rating:** Value that indicates overall performance of the Mentor
        - 2.8.2. Mentor Reviews:** Individual comments left by Mentees after meeting with a Mentor
- 3. Forum:** Main gathering place where all Registered Users connect with each other through posts and comments.
  - 3.1. Post:** Registered Users create posts to share ideas or start discussions with the entire DebugMe community.
    - 3.1.1. Post Comment:** Left by users that wish to engage in the Post discussion.
- 4. Premium Guide:** Resources created by Mentors to share their advanced knowledge about internship success. Paid service included in Premium subscription plan.
  - 4.1. Premium Guide Comment:** Premium users can discuss the contents of Premium Guides by leaving comments on them.
  - 4.2. Premium Guide Rating:** Premium users can rate Premium Guides based on their quality.
- 5. Mentoring Session:** Service for Premium Users to connect with Mentors on one-on-one meetings. Currently, Mentoring Session details like date/time and location (virtual/in person) are determined through direct messages between Mentor-Mentee.
- 6. Calendar of Events:** Collection of all Events created by Registered users.
  - 6.1. Event:** Tool for all Registered users to coordinate meetings (virtual/in person) with other Registered users. The nature of these events must be related to internship help, success.
    - 6.1.1. Participant List:** List of Registered Users that wish to participate in the Event.
    - 6.1.2. Event Comment:** For participants to discuss event details, ask questions to the Event creator.
- 7. Direct Messaging:** Means of direct communication between any two Registered Users. Any registered user can send a direct message to any other Registered User.
  - 7.1. Conversation:** Collection of messages between two Registered users
    - 7.1.1. Message:** Can contain text and/or images

## 2. Prioritized Functional Requirements

### Priority 1

1. **Unregistered Users**
  - 1.1. Unregistered users shall be able to create an account
2. **Registered Users**
  - 2.1. Registered users shall be able to delete their accounts
  - 2.2. Registered users shall be able to log in
  - 2.3. Registered users shall be able to log out
  - 2.4. Registered users shall be able to request a password reset
  - 2.5. Registered users shall be able to see their profiles (My Page)
  - 2.6. Registered users shall be able to update their personal information
  - 2.7. Registered users shall be able to upload a profile picture
  - 2.8. Registered users shall be able to change their subscription plans (Free/Premium)
  - 2.9. Registered users shall be able to update their financial information
  - 2.10. Registered users shall be able to become Mentors
3. **Forum**
  - 3.1. Registered users shall be able to see all posts in the Forum
  - 3.2. Registered users shall be able to search Forum posts
  - 3.3. Registered users shall be able to create posts
    - 3.3.1. Registered users shall be able to add text to their post body
    - 3.3.2. Registered users shall be able to add images to their post body
  - 3.4. Registered users shall be able to delete their posts
  - 3.5. Registered users shall be able to see any post's comments
  - 3.6. Registered users shall be able to leave a comment on any post
  - 3.7. Registered users shall be able to delete their post comments
  - 3.8. Registered users shall be able to report any post
  - 3.9. Registered users shall be able to report any post comment
4. **Direct Messages**
  - 4.1. Registered users shall be able to send a direct message to any other registered user
  - 4.2. Registered users shall be able to receive direct messages from any other registered user
5. **Calendar of Events**
  - 5.1. Registered users shall be able to see all events listed in the calendar
  - 5.2. Registered users shall be able to create new events
    - 5.2.1. Registered users shall be able to add text to their event body
    - 5.2.2. Registered users shall be able to add images to their event body
    - 5.2.3. Registered users shall be able to make their event's participant list public or private
  - 5.3. Registered users shall be able to edit their events
  - 5.4. Registered users shall be able to delete their events
  - 5.5. Registered users shall be able to join any event's participant list
  - 5.6. Registered users shall be able to leave any event's participant list
  - 5.7. Registered users shall be able to filter events listed in the calendar

5.8. Registered users shall be able to receive notifications

**6. Premium Users**

- 6.1. Premium users shall be able to see a list of their upcoming Mentoring Sessions
- 6.2. Premium users shall be able to see all Premium Guides
- 6.3. Premium users shall be able to access any Premium Guide
- 6.4. Premium users shall be able to leave a comment on any Premium Guide
- 6.5. Premium users shall be able to rate any Premium Guide
- 6.6. Premium users shall be able to report any Premium Guide
- 6.7. Premium users shall be able to request a Mentoring Session from any Mentor
- 6.8. Premium users shall be able to cancel their Mentoring Session requests
- 6.9. Premium users shall be able to leave a rating on a Mentor's profile
- 6.10. Premium users shall be able to leave a review on a Mentor's profile

**7. Mentors**

- 7.1. Mentors shall be able to see their rating
- 7.2. Mentors shall be able to see their reviews
- 7.3. Mentors shall be able to create Premium Guides
- 7.4. Mentors shall be able to add text to their Premium Guides
- 7.5. Mentors shall be able to add images to their Premium Guides
- 7.6. Mentors shall be able to edit their Premium Guides
- 7.7. Mentors shall be able to delete their Premium Guides
- 7.8. Mentors shall be able to reply to comments on their Premium Guides
- 7.9. Mentors shall be able to see their Mentoring Session requests
- 7.10. Mentors shall be able to approve Mentoring Session requests
- 7.11. Mentors shall be able to refuse Mentoring Session requests

**8. Admin**

- 8.1. Admins shall be able to see all their customer service requests
  - 8.1.1. Admins shall be able to receive reports about inappropriate user-made content (Forum posts, Premium Guides, etc.)
  - 8.1.2. Admins shall be able to receive refund requests for Premium services
- 8.2. Admins shall be able to approve/deny customer requests for refunds
- 8.3. Admins shall be able to process reports about inappropriate content
  - 8.3.1. Admins shall be able to remove any Forum post
  - 8.3.2. Admins shall be able to remove any Forum post comment
  - 8.3.3. Admins shall be able to remove any Calendar Event
  - 8.3.4. Admins shall be able to remove any Premium Guide

## **Priority 2**

**1. Registered Users**

- 1.1. Registered users shall be able to upvote any post
- 1.2. Registered users shall be able to embed images on their post comments
- 1.3. Registered users shall be able to upvote any post comment
- 1.4. Registered users shall be able to edit their post comments
- 1.5. Registered users shall be able to add any post to their list of saved posts
- 1.6. Registered users shall be able to remove any post from their list of saved posts

- 1.7. Registered users shall be able to block any other registered user from messaging them
- 1.8. Registered users shall be able to unblock any other registered user from messaging them
- 1.9. Registered users shall be able to embed images on their direct messages
- 1.10. Registered users shall be able to recover their deleted content (posts, comments, events)

**2. Premium Users**

- 2.1. Premium users shall be able to add any Premium Guide to their list of saved Premium Guides
- 2.2. Premium users shall be able to remove any Premium Guide from their list of saved Premium Guides

**3. Mentors**

- 3.1. Mentors shall be able to embed video content in their Premium Guides
- 3.2. Mentors shall be able to change the font style in their Premium Guides
- 3.3. Mentors shall be able to attach a custom tag to their username
- 3.4. Mentors shall be able to recover their deleted Premium Guides

**4. Admins**

- 4.1. Admins shall be able to temporarily ban registered users
- 4.2. Admins shall be able permanently ban registered users

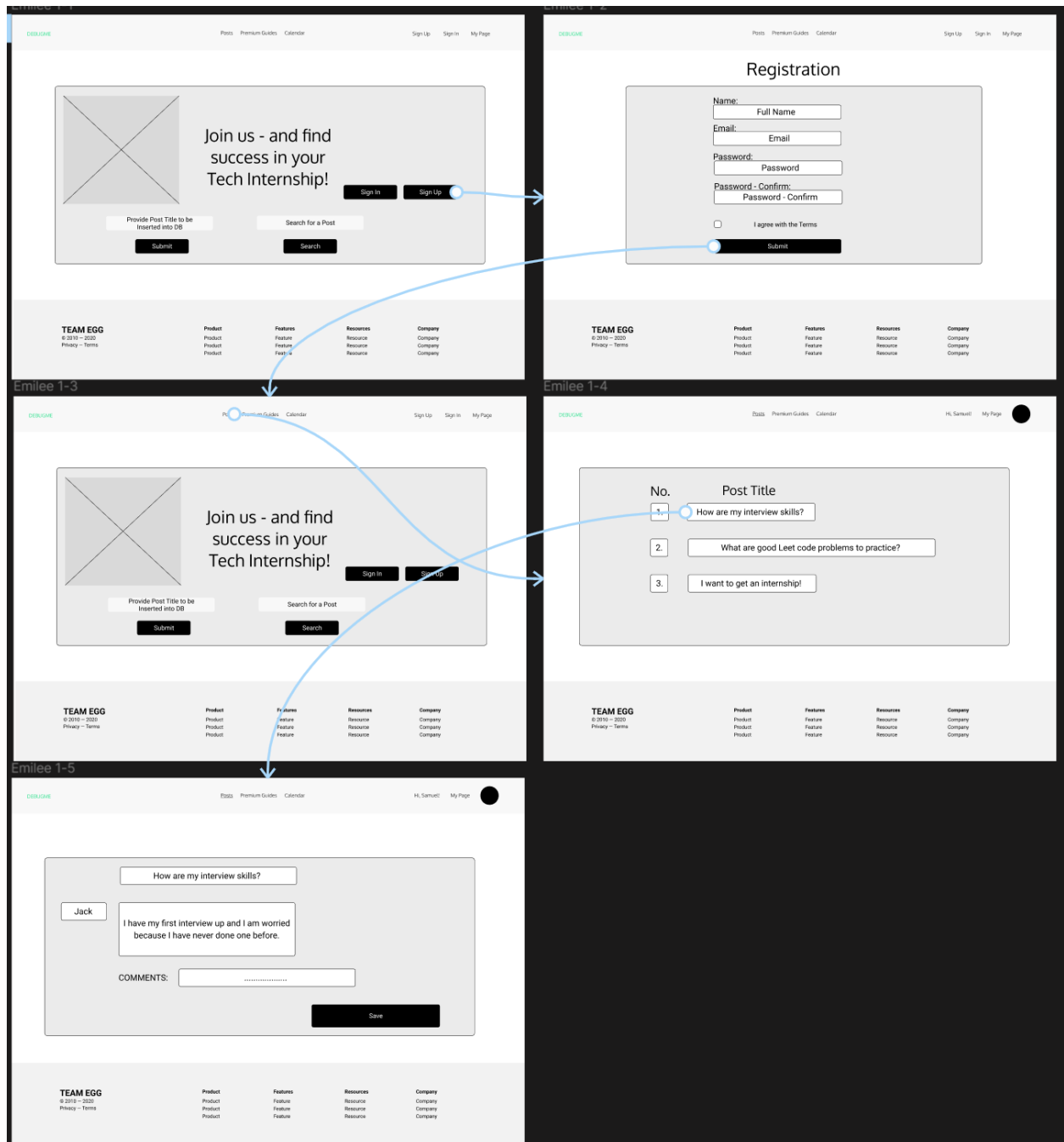
## **Priority 3**

**1. Registered Users**

- 1.1. Registered users shall be able to to change DebugMe's theme (Light/Dark)
- 1.2. Registered users shall be able to link their social media accounts to their DebugMe account
- 1.3. Registered users shall have an icon next to their username to display if they're currently online
- 1.4. Registered users shall be able to share DebugMe content through their linked social media accounts
- 1.5. Registered users shall be able to see their history of interactions within DebugMe
- 1.6. Registered users shall be able to set reminders for upcoming Events or Mentoring Sessions

### 3. Wireframes Based on your Mockups/Storyboards

1. Mike visits DebugMe for the first time. While signing up for an account, he provides some personal information and chooses his subscription plan. Finally, he interacts with a Forum post by leaving a comment.

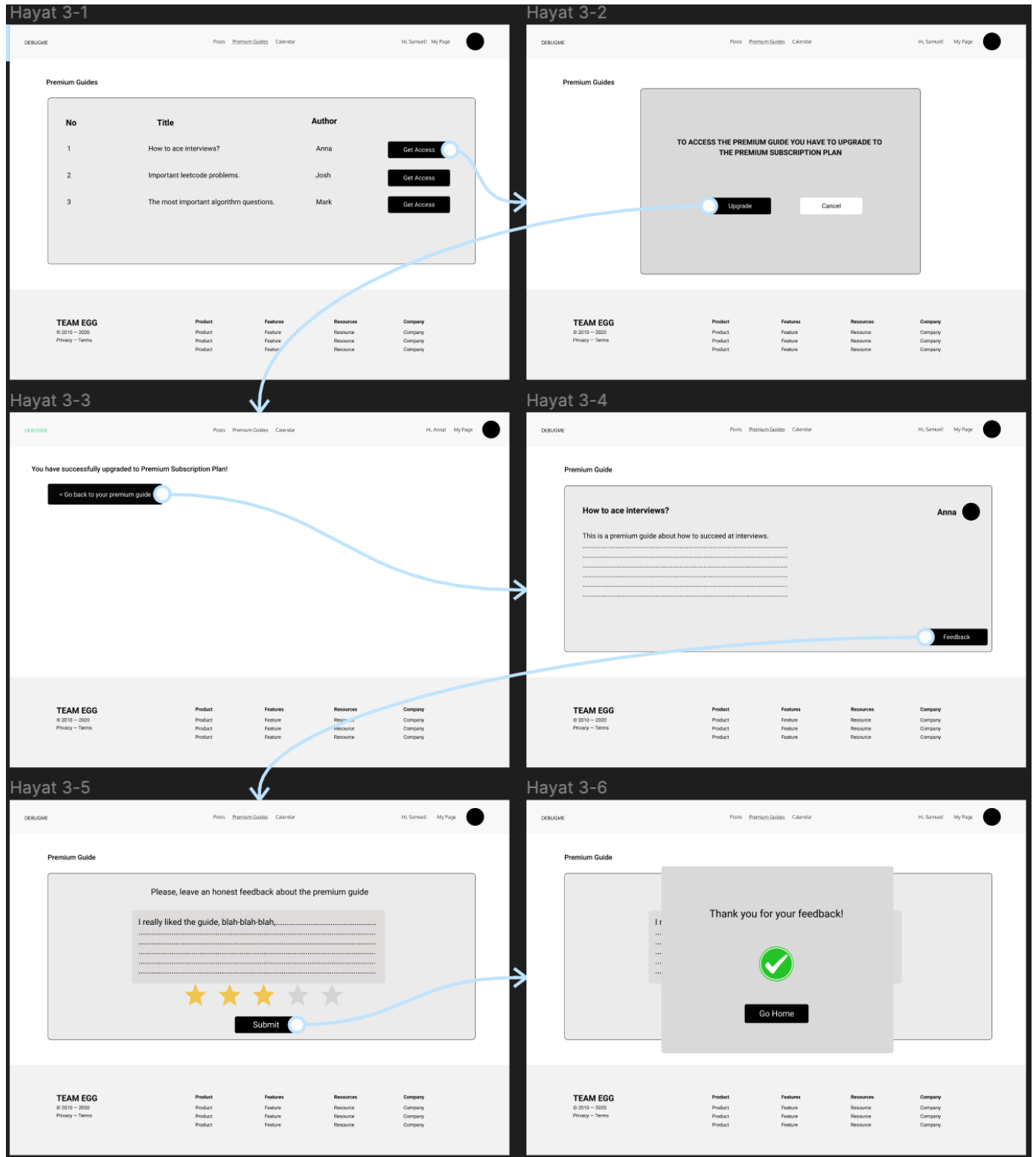




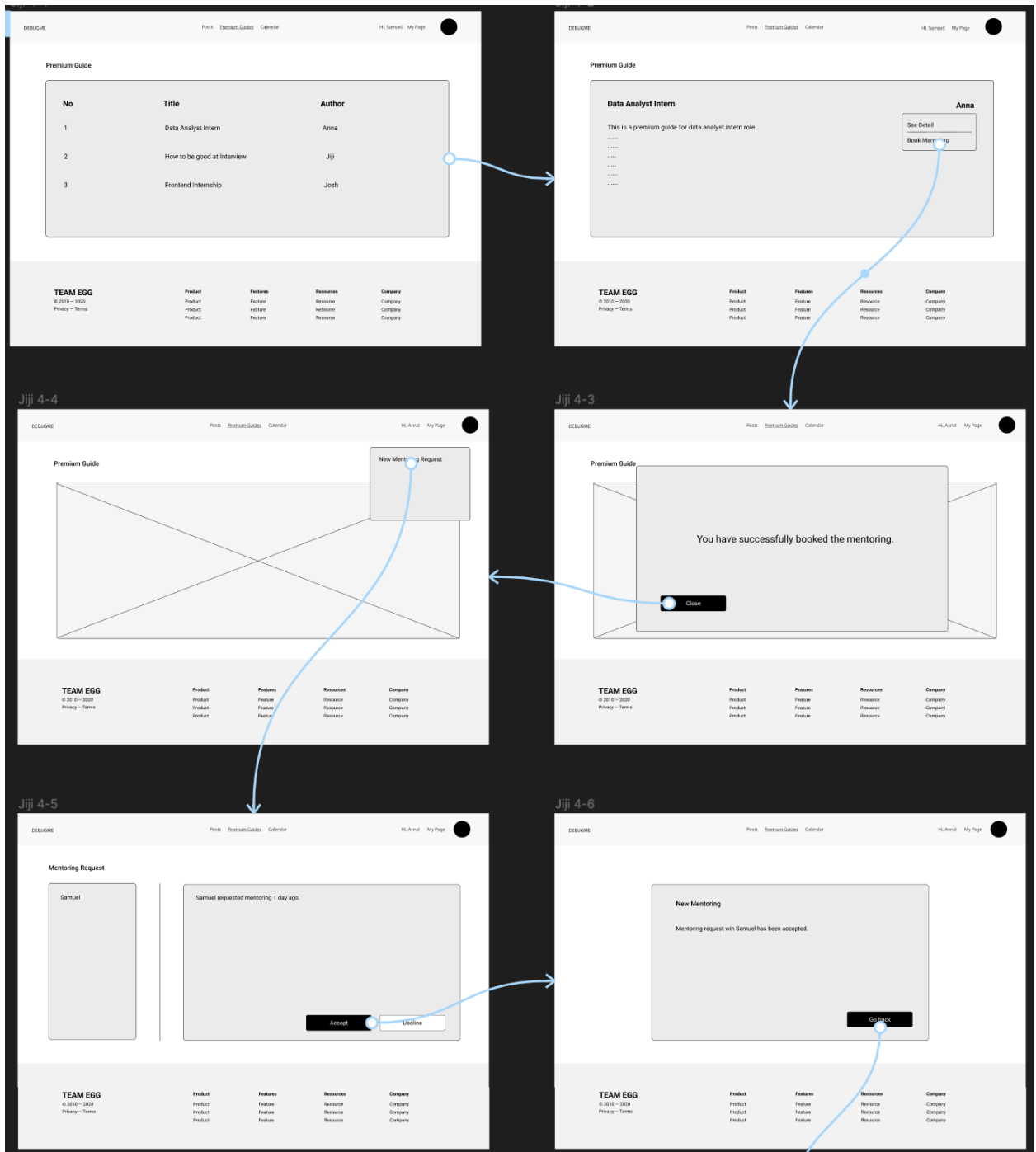
2. Julian logs in and creates a Premium Guide, he adds text and images to the guide body. After submitting his guide, he updates his financial information in his user profile.

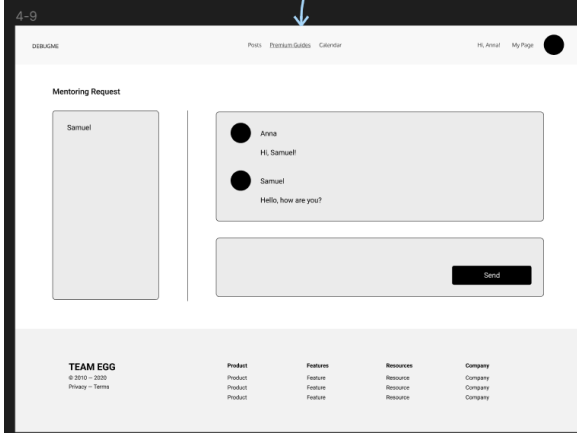
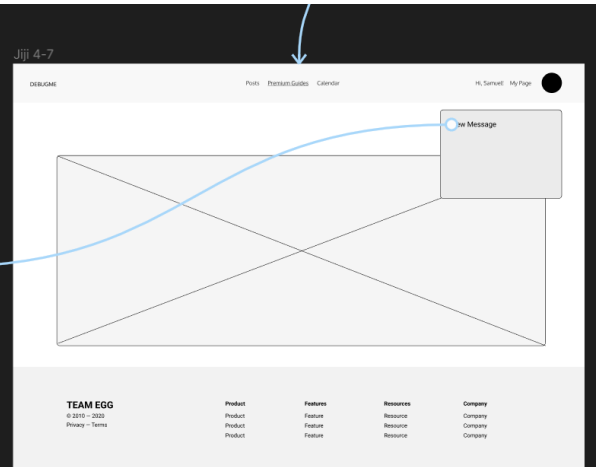
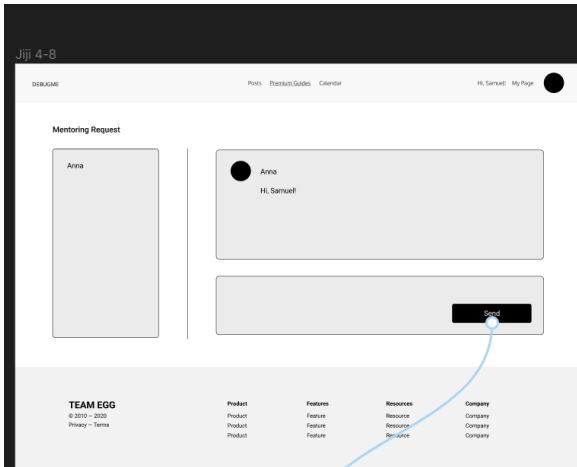


3. Andrea upgrades to the Premium subscription plan. She accesses a Premium Guide and likes it, so she leaves a positive rating and a short feedback comment.



4. Samuel read Anna's Premium Guide and decided to book a Mentoring Session with her. Anna receives and accepts Samuel's mentoring request. They then engage in a direct message conversation to agree on the details of their meeting.





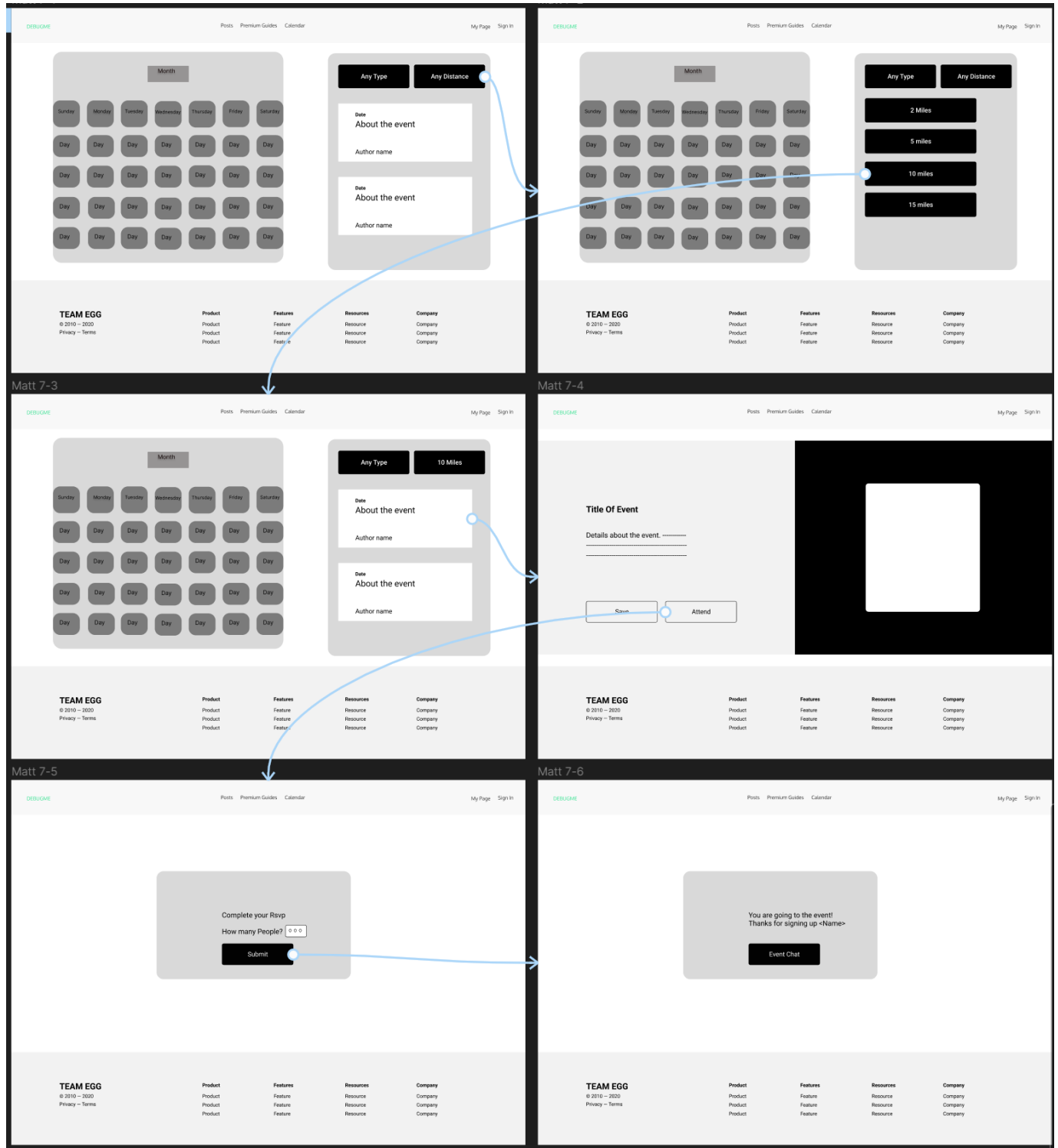
5. Patrick had a negative experience during a Mentoring Session, so he decides to leave a negative review and ask for a refund. Jacob, a DebugMe admin, receives Patrick's refund request and approves it.



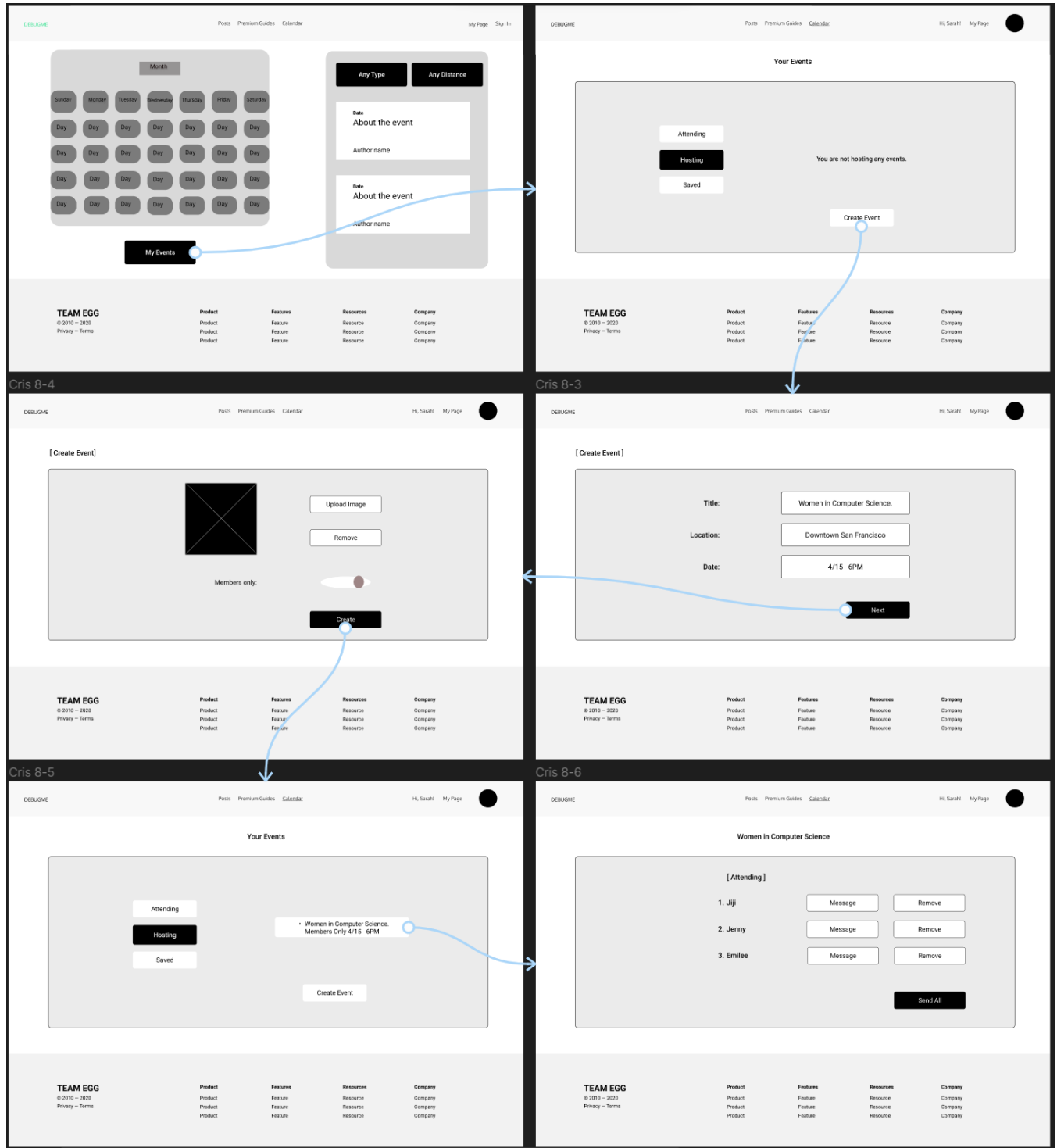
6. Jay creates a new post in the Forum. Eddie sees Jay's post and wishes to talk to him directly. Eddie then starts a direct message conversation with Jay.



7. Lucy filters the events from the Calendar of Events by distance. She then finds an event she is interested in so she joins the event's participants list.



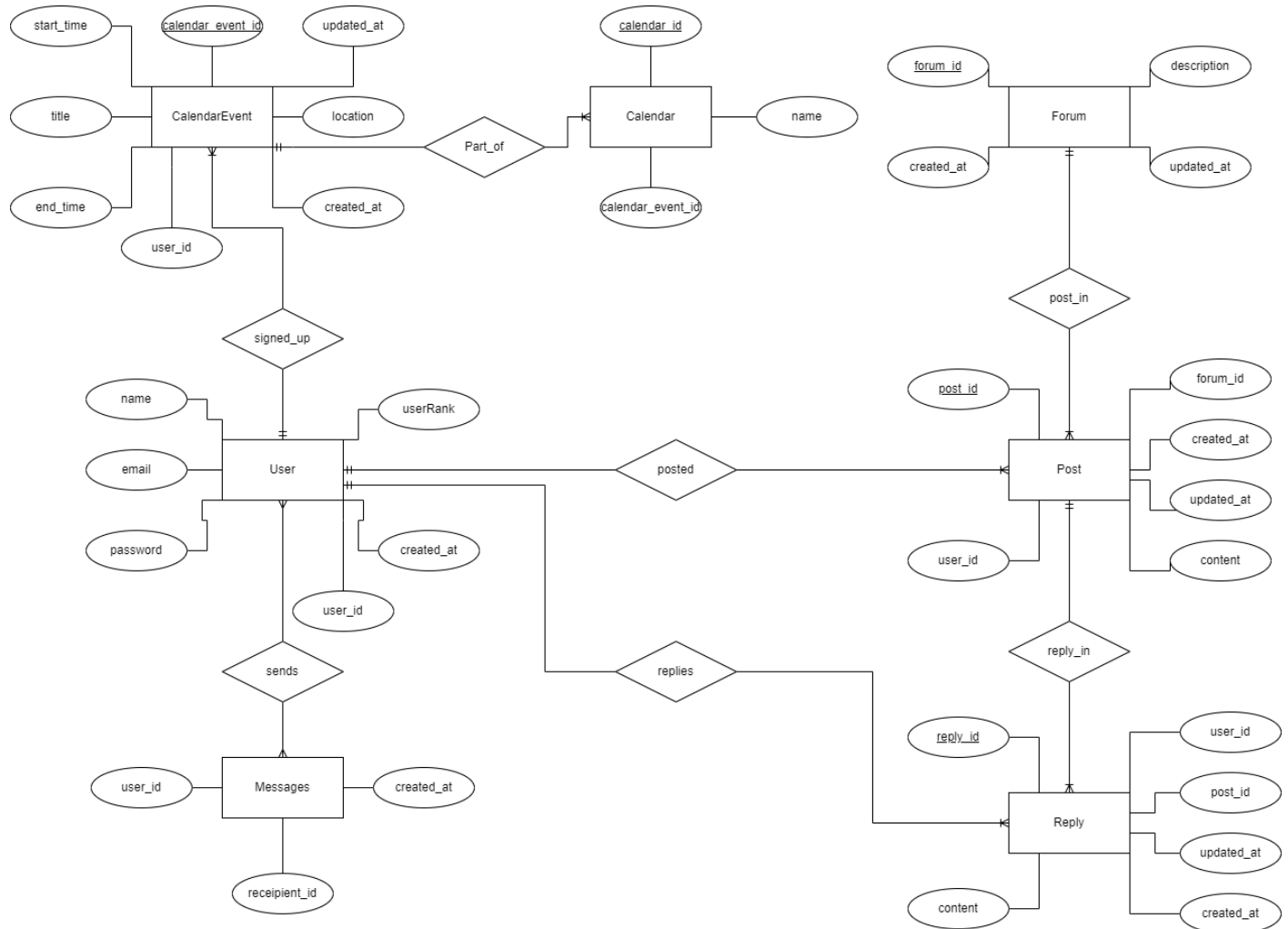
8. Sarah creates a new event, filling out the event description and adding images. She sends a welcome message to other users as they join her event's participant list.



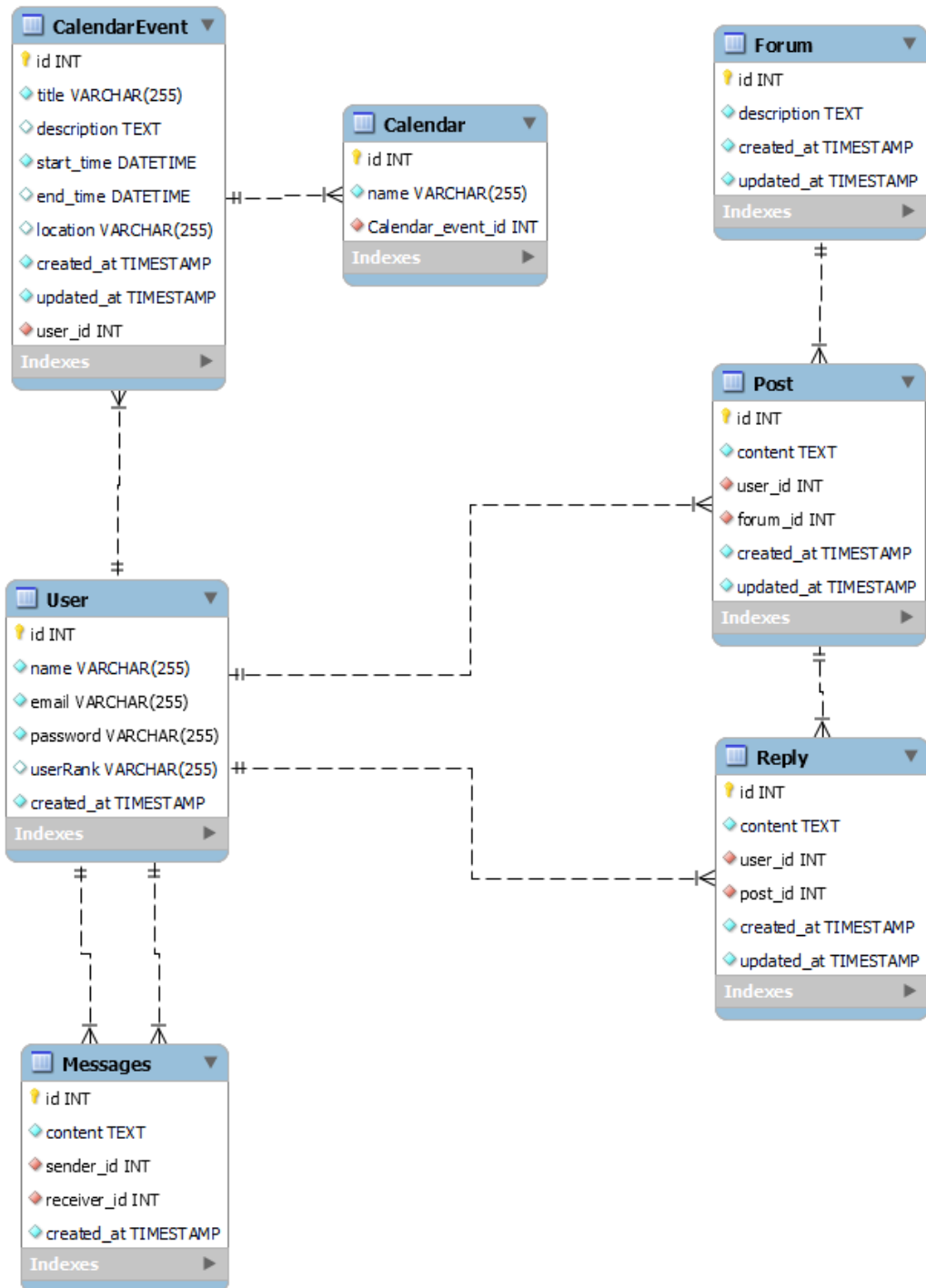


## 4. High level database architecture and organization

ERD Diagram

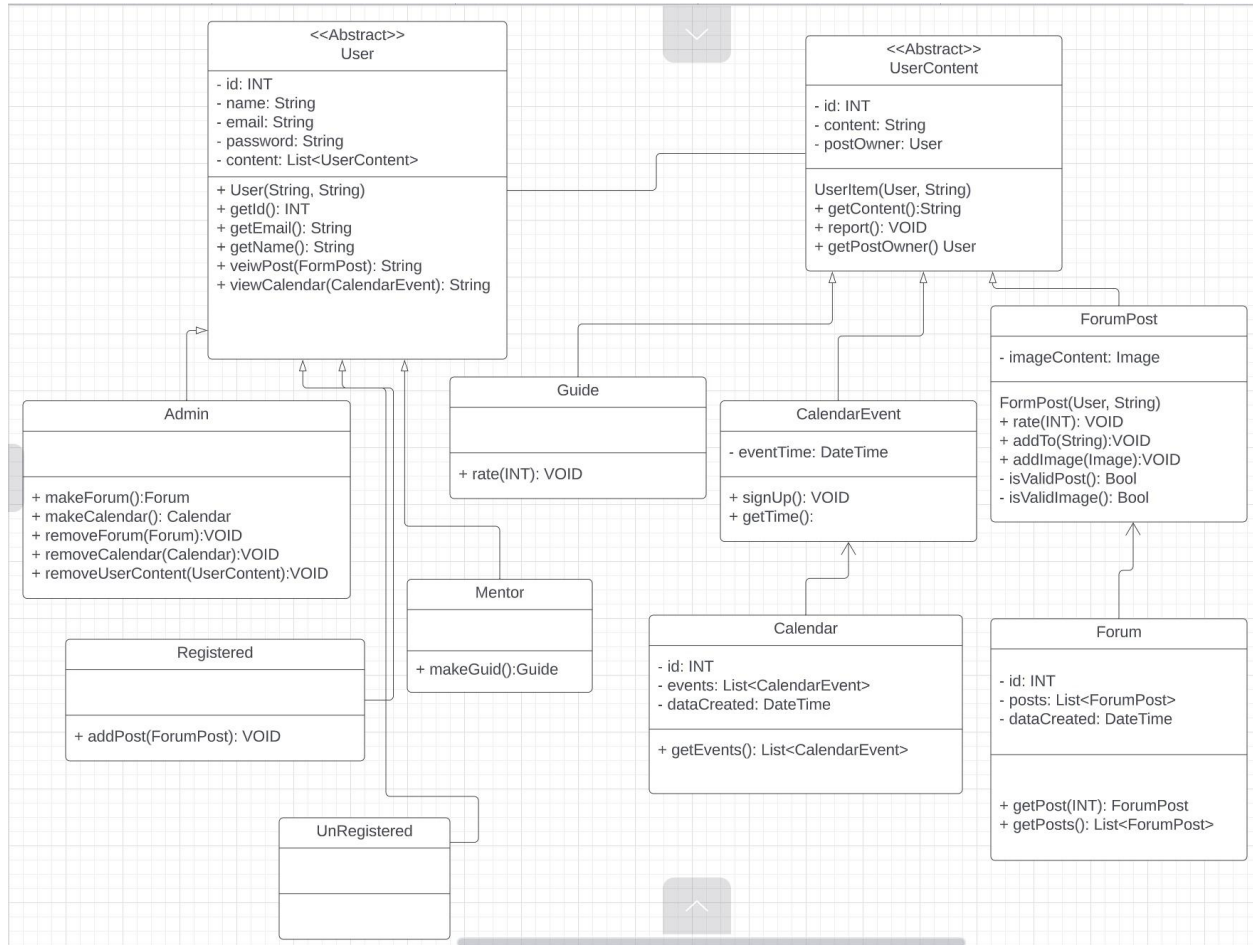


## EER Diagram

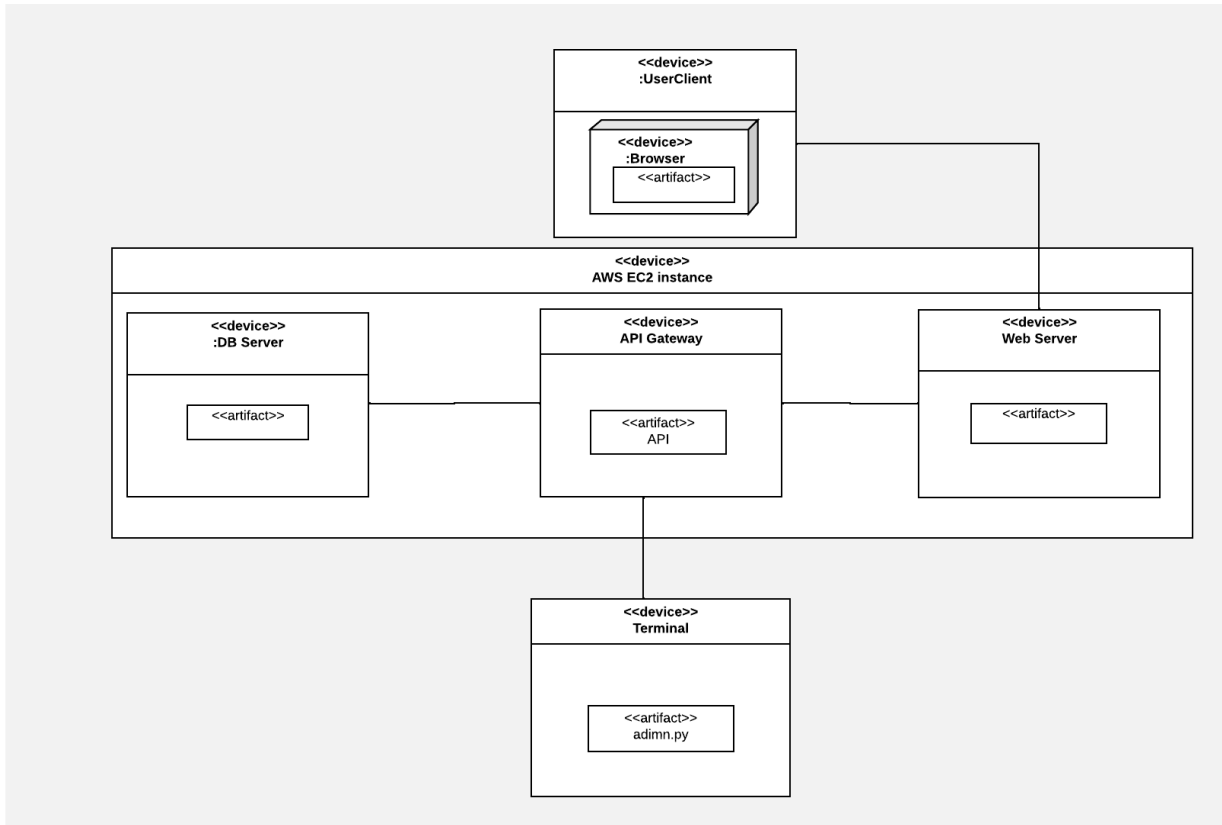


## 5. High Level Diagrams

### UML Diagram

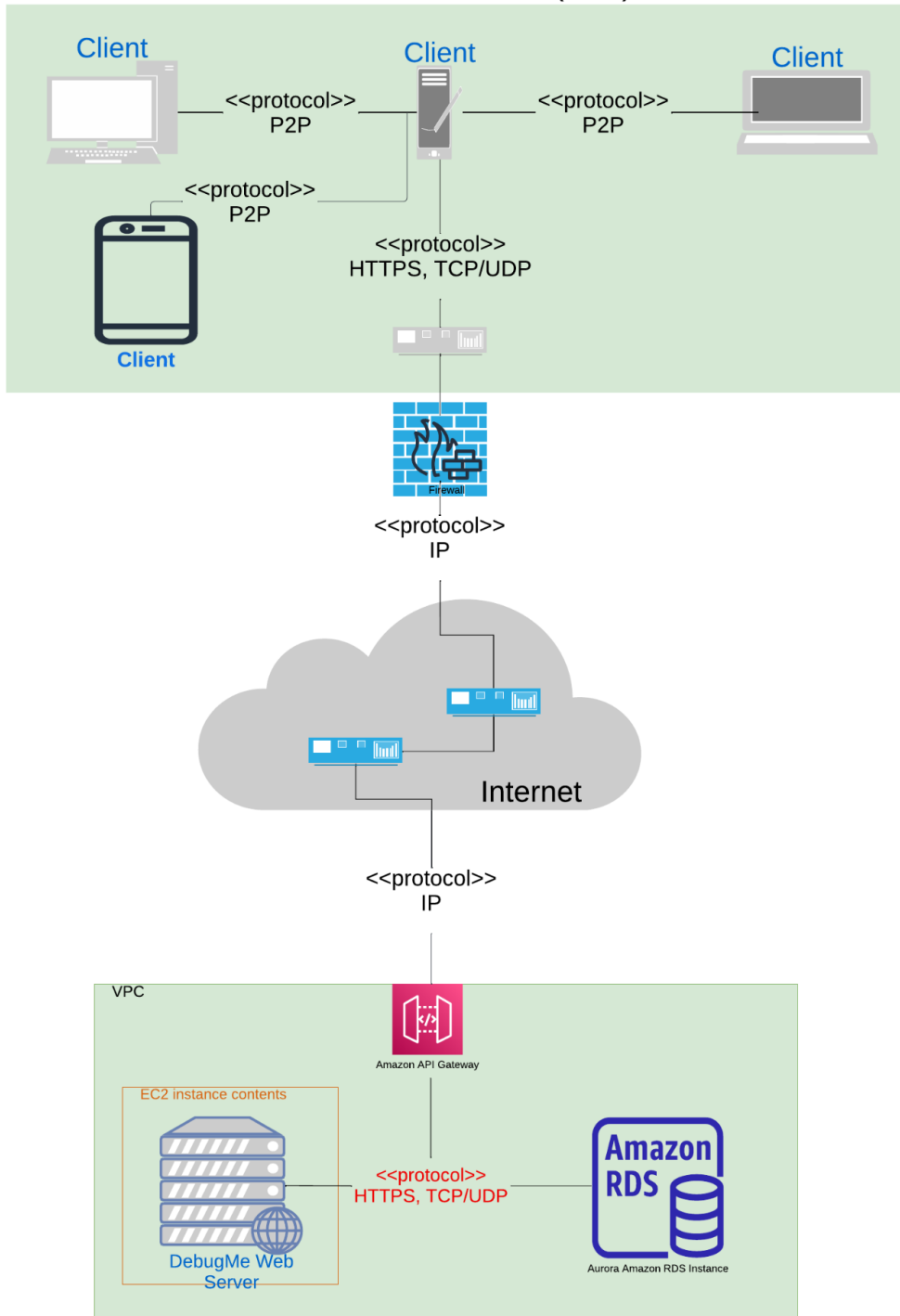


# Deployment Diagram



# Network Diagram

## Local Area Network (LAN)



## AWS Virtual Private Network (VPC)

## 6. List of Contributions

### 1. Jiji/Jijeong Lee (Front End Leader) - Score: 10

- Created the frontend structure
- Shared lots of valuable resources related to react and figma and frontend for the rest of the group to be able to help take on the front end side and not leave all the work onto one person
- Worked on a wireframe
- Implemented a wireframe
- Created main page
- Came to and participated in every meeting

### 2. Mat/Matthew Bush (Back End Leader) - Score: 9

- Worked on a wireframe
- Implemented a wireframe
- Worked on updating deployment diagram
- Worked on updating Network Diagram
- Came to and participated in every meeting

**3. Cris/Cristobal Padilla (Github Leader) - Score: 10**

- Got our backend and DB and instance all connecting and working together again, so basically re-did the entire structure and fixed it
- Fixed and ultimately finished our Vertical Prototype
- Worked on a wireframe
- Implemented a wireframe
- Helped get going with push to Github
- Came to and participated in every meeting

**4. Hayat/Khayotbek Azimov (Cloud Leader) - Score: 8**

- Worked on a wireframe
- Implemented a wireframe
- Was a support to other team members helping finish tasks
- Worked on implementing buttons
- Came to and participated in every meeting but one, he was sick and communicated ahead of time

**5. Jef/Jeffrey Ma (Database Leader) - Score: 8**

- Worked on a wireframe
- Implemented a wireframe
- Helped update section #4 in M3
- Came to and participated in every meeting

**6. Hector Magallanes (Document Leader) - Score: 10**

- Helped organize and assign wireframes to team members
- Worked on two wireframes
- Implemented both of his wireframes
- Edited and formatted the pdf
- Helped teach others about the wireframes
- Created a structure for the horizontal prototype so we could more easily implement our wireframes, really helpful!
- Created random assignment of who would work on what use cases for the wireframes
- Updated section #2 in M3
- Came to and participated in every meeting
- Helped update section #4 in M3
- Worked on updating deployment diagram
- Came to office hours

**7. Emilee Padilla (Team Lead) - Score: 7**

- Worked on a wireframe
- Partial work on implementation
- Contribution list
- Worked on Trello tasks and updating
- Kept detailed meeting notes
- Came to and participated in every meeting