SW Engineering CSC648/848

Section-04

Team-04

Milestone 2

Resume Therapy

Kevin Barbour - *Team Lead*
Atharva Veer - *Frontend Lead*
Ivan Ramos - *Backend Lead*
Keon Abbasi - *Scrum Master & Frontend Support*

Michael Petrossian - *Git Master & Backend Support*

Maël Teyssèdre - *Backend Support*
Kevin Zeng - *Frontend Support*

3/29/23

Milestone 2	Version 1.0

1. Data Definitions V2

Data Name	Definition	Usage
RegisteredUser	Any person that has registered to our platform	A place to store every registered users' authentication info.
User	Any person that has registered to our platform, and needs help with their Resume from an Employee	The User can upload their Resume to their profile, make connections, and do 1 on 1 chats and video calls with Employees.
Employee	Any person that has registered to our platform, is an expert in a certain field and is willing to help a User with their Resume	The Employee can set their field of expertise, make connections, set their times of availability for video calls, make video calls and do 1 on 1 chats with a User.
Connection	A mutual connection between a User and an Employee.	A Connection must be made between a User and an Employee in order to have a Conversation or schedule a Meeting.
EmployeeAvailability	Dates and time slots at which an Employee is available for a video call, and if the slot is available.	A User can view the EmployeeAvailablity of an Employee once they have a Connection.
Connections	A list of connections.	Each User and Employee has their own Connections.
Meeting	A scheduled time at which a User and an Employee has a video call.	A User can set a Meeting with an Employee, based on the EmployeeAvailability.

Conversation	A private chat room where a User and an Employee can exchange messages	Either a User or an Employee can begin a Conversation, and their messages will be stored in this class.
Conversations	A list of conversations.	Each User and Employee has their own Conversations.
Resume	The Resume if a user chooses to upload one for the Employee to view.	The Resume is not stored in a Firebase db, but rather in Firebase's cloud storage where it is filed under the User's user ID (uid).

Class	**Variables**
RegisteredUser	- authInfo - email - uid - firstName - lastName
User	- age - meetings - conversations - resume - connections
Employee	- age - meetings - conversations - expertise - connections
Connection	- userID - employeeID
EmployeeAvailability	- employeeID - times
Connections	- connections
Meeting	- userID - employeeID - time
Conversation	- messages - userID - employeeID

Conversations	-conversations

2. Functional Requirements V2

R1.2.0 - priority HIGH: Customers and specialists can register and login, as well as logout, using a different interface for each respective type of user. It allows them to access their account and personal information. They will provide their personal information like name, age and areas of expertise at registration. All of the information will be available in the respective profile homepage, where the user will be routed to after login.

R2.2.0 - priority HIGH: Customers can upload their resume to their profile.

R3.2.0 - priority HIGH: Users can follow/add specialists that they feel will assist them in their journey. Once a specialist is selected they appear in their Connections dashboard feature, where the user can message, schedule or join a video call with.

R4.2.0 - priority HIGH: Customers and specialists are able to exchange messages with each other after they have made a connection. Messages will be permanently stored in the database, that way the 2 users do not have to be on a live chat together. There questions can be asked and feedback given. Each user will be able to access their messages from their own profile dashboard.

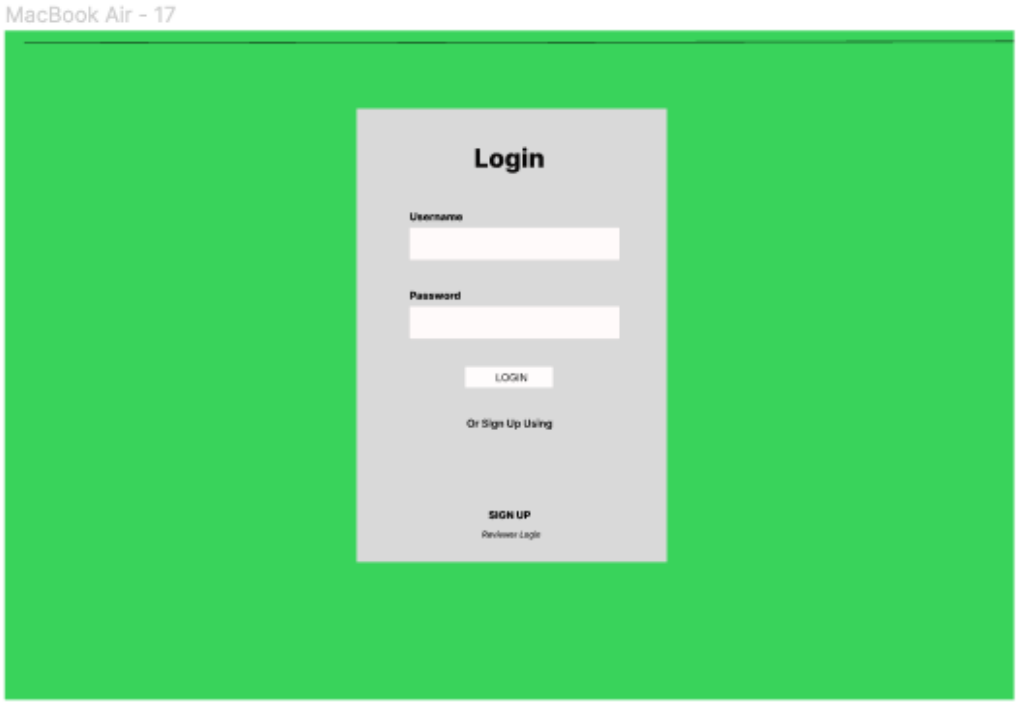
R5.2.0 - priority MEDIUM: Both types of users can edit their profile information under the settings tab in their profile dashboard.

R6.2.0 - priority MEDIUM: Employees and users can join a video call with each other if they have a connection. The scheduling of the video currently is planned so that the user and employee can plan on a time to join a call together.

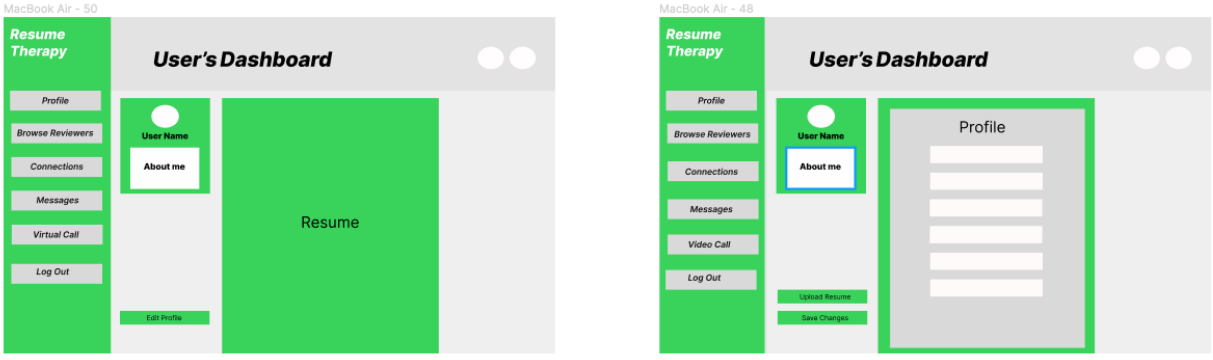
R7.2.0 - priority MEDIUM: Employees can set their availability for video calls. Once an available slot is taken, other users that have a connection with that employee cannot select it. This would be the ideal addition to the program for the scheduling but this will be based on time and difficulty.

3. UI Mockups and Storyboards (high level only)

Registered User's Flow

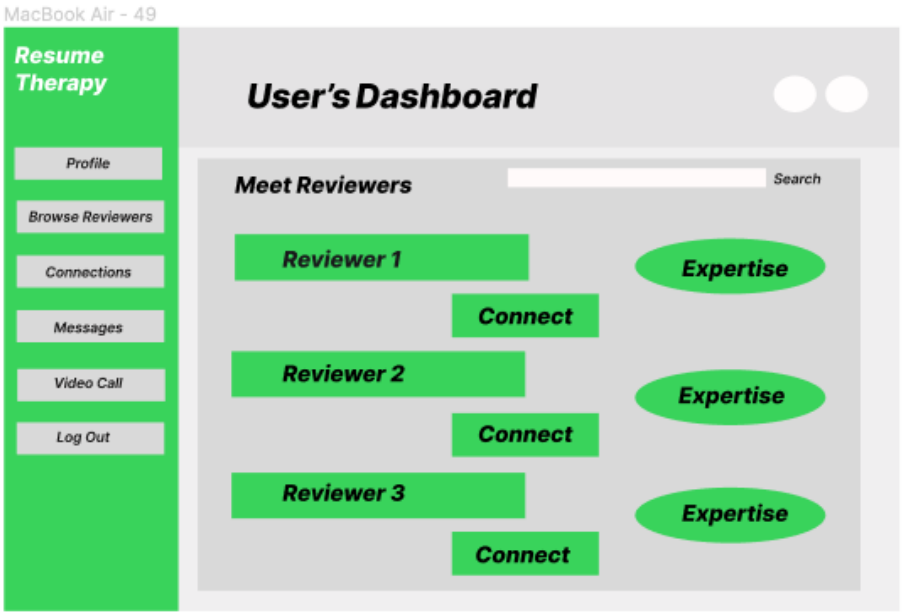


Registered User Profile Upon Login

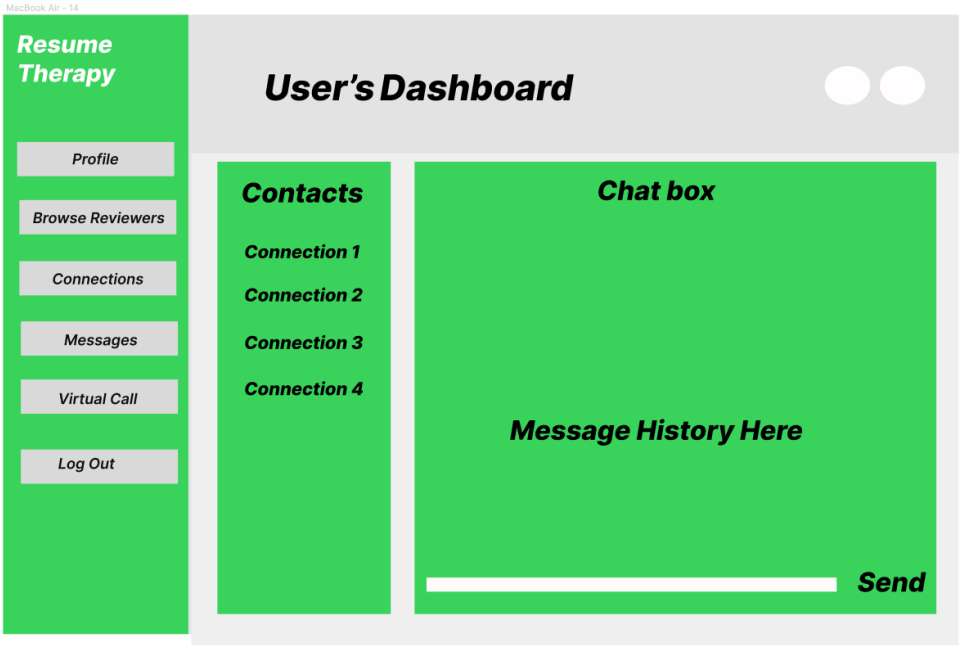


upon clicking edit profile

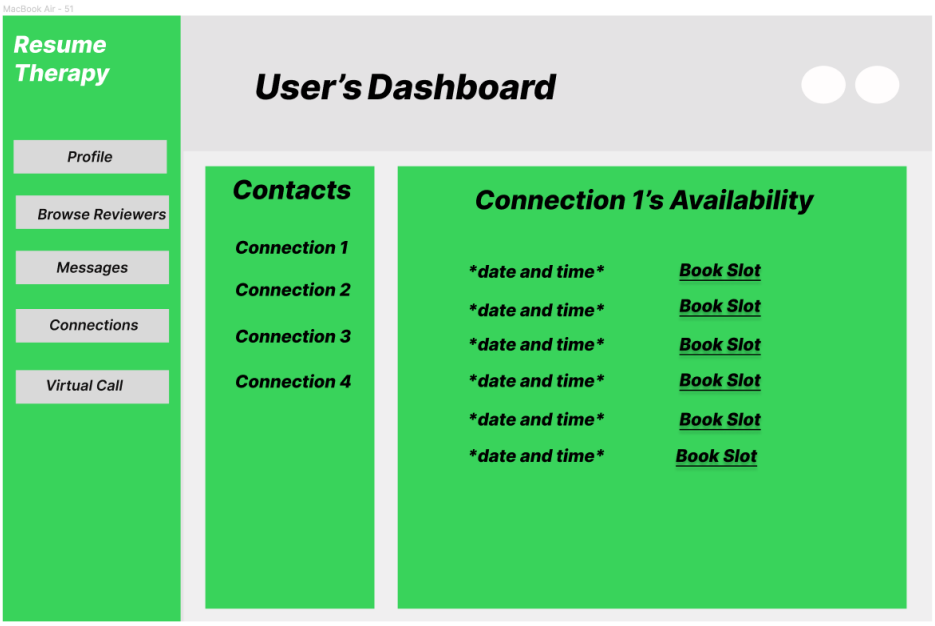
after clicking "Browse Reviewers" tab



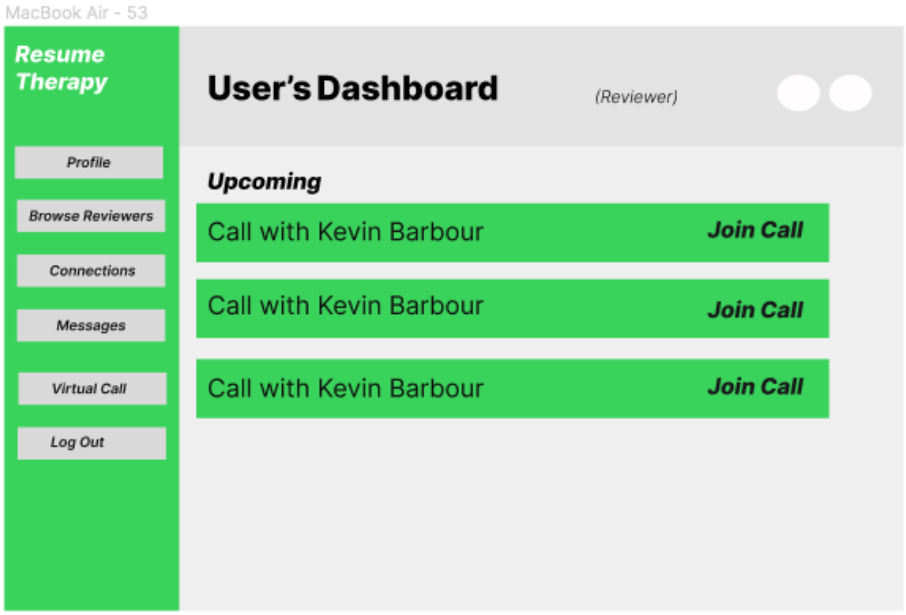
after clicking "Messages" tab



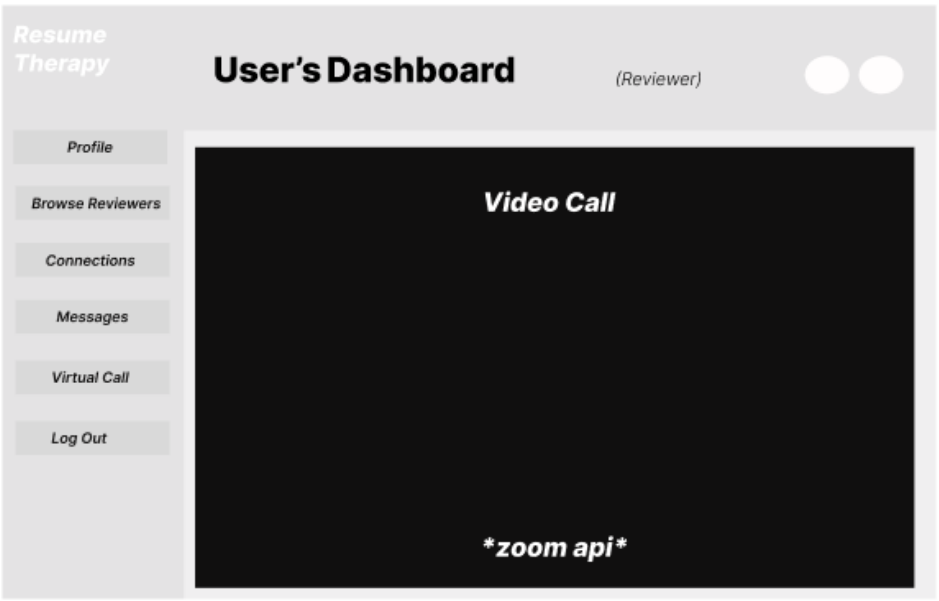
after clicking "Connections" tab



after clicking "Virtual Call" tab

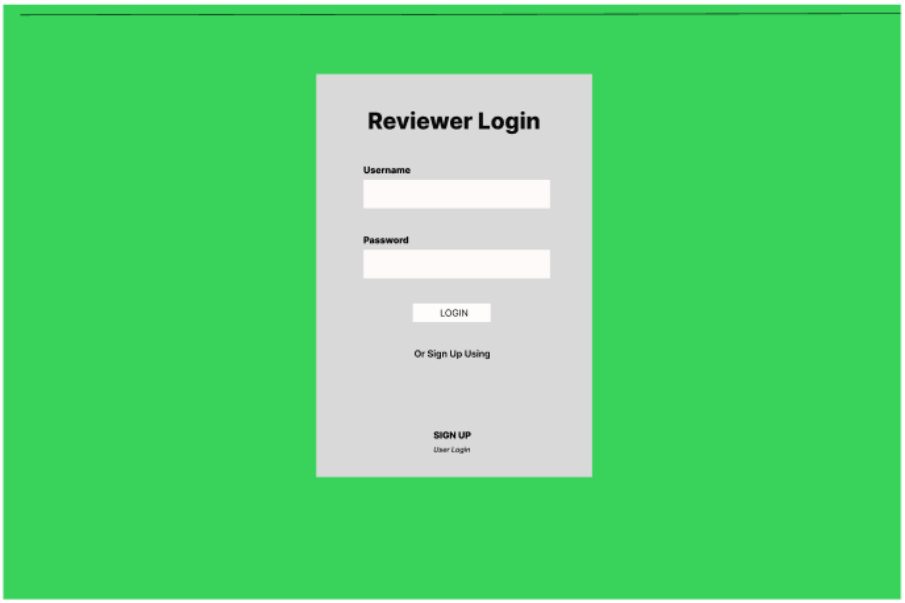


MacBook Air - 52

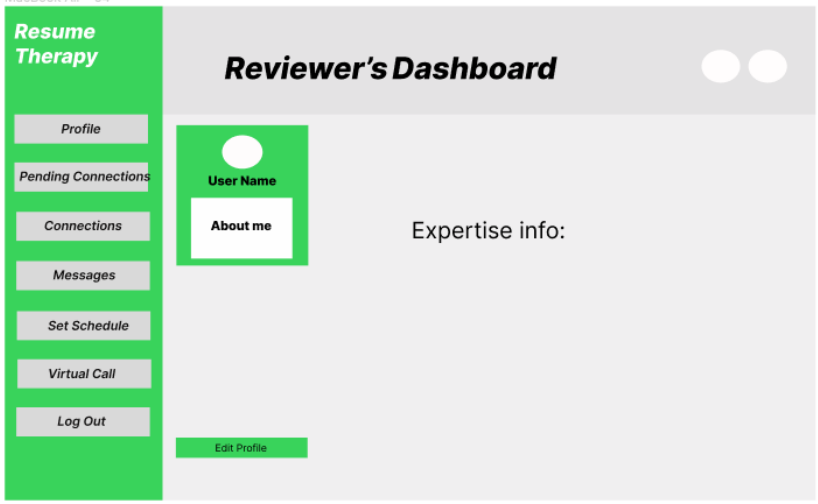


Reviewer's User Flow

MacBook Air - 18

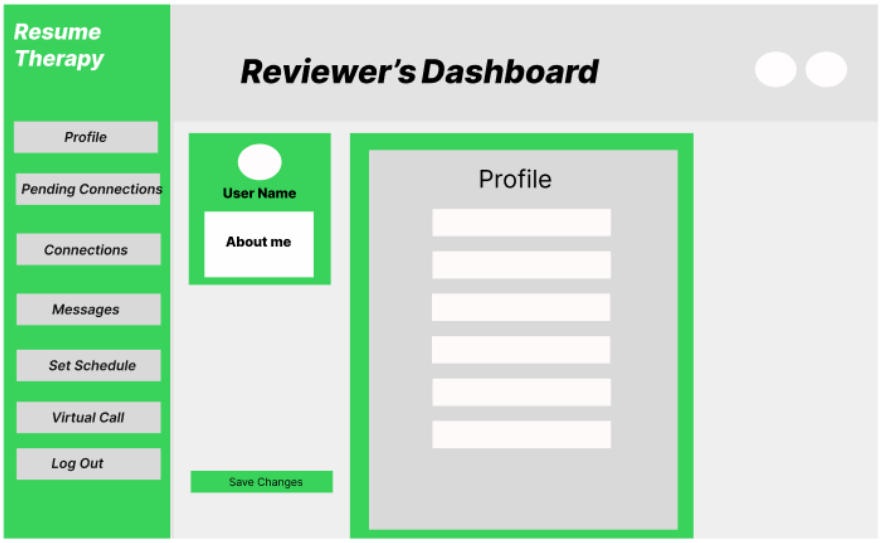


MacBook Air - 54

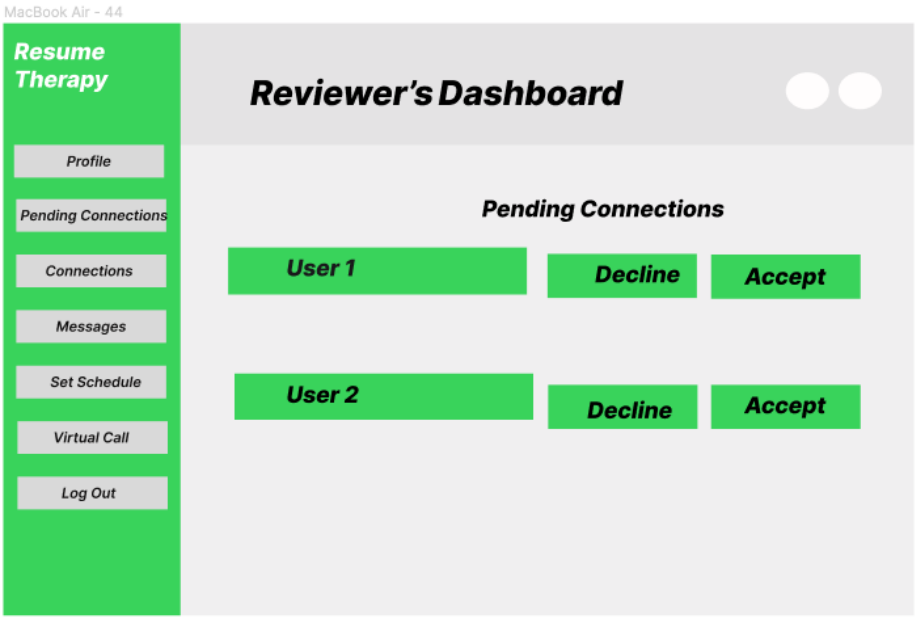


after clicking edit profile

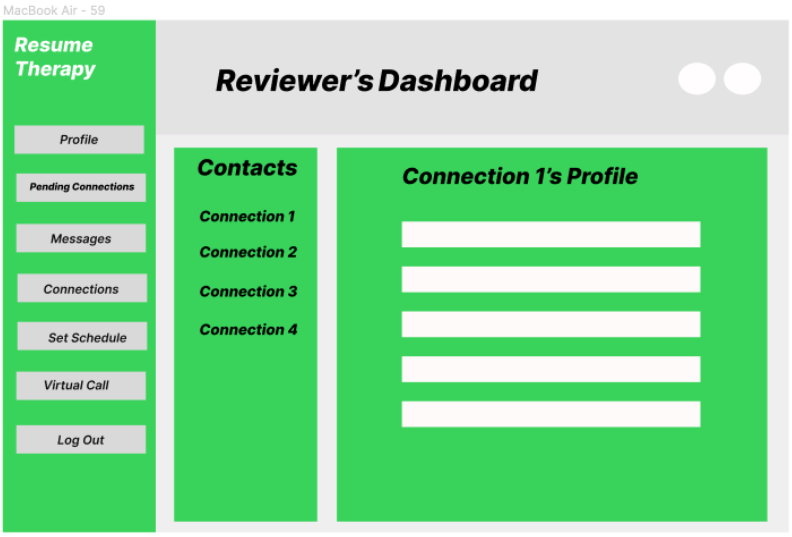
MacBook Air - 55



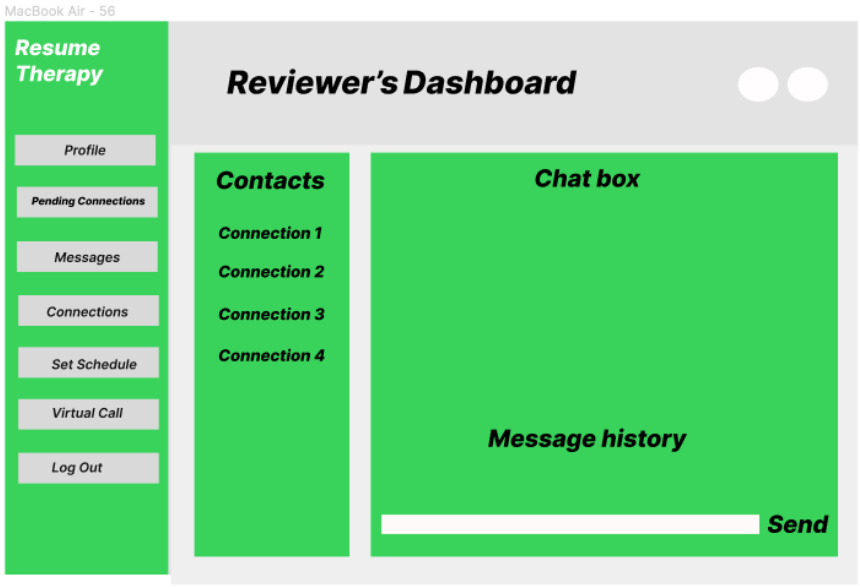
after clicking "Pending Connections"



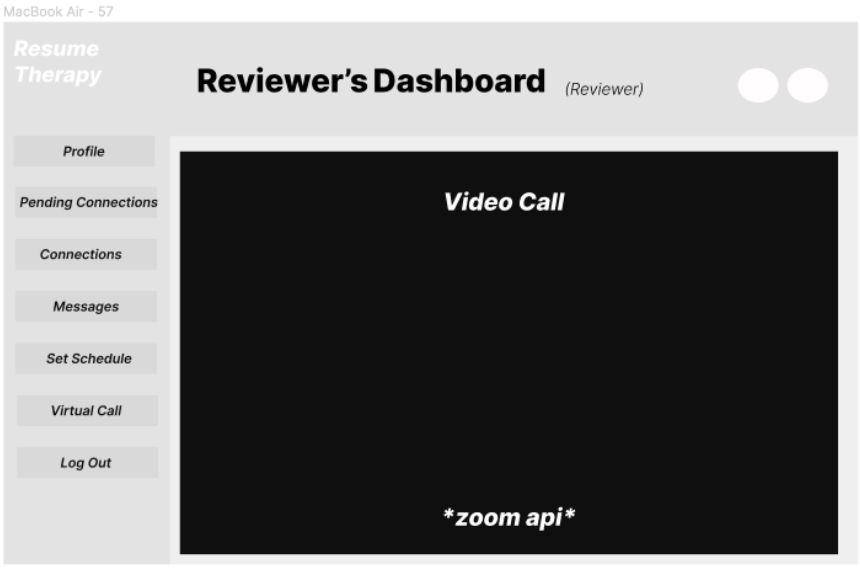
after clicking "Connections" tab



after clicking "messages" tab



after clicking "Virtual Call" tab



4. High level Architecture, Database Organization

RegisteredUsers:

Field	Data Type
authProvider	string
email	string
firstName	string
lastName	string
uid	string

User:

age	int
conversations	Array (String)

meetings	Array (timestamps)
resume	File (stored in Firebase's cloud storage)
connections	Array (String)

Employee:

age	int
connections	Array (String)
conversations	Array(String)
meetings	Array (timestamps)
expertise	String

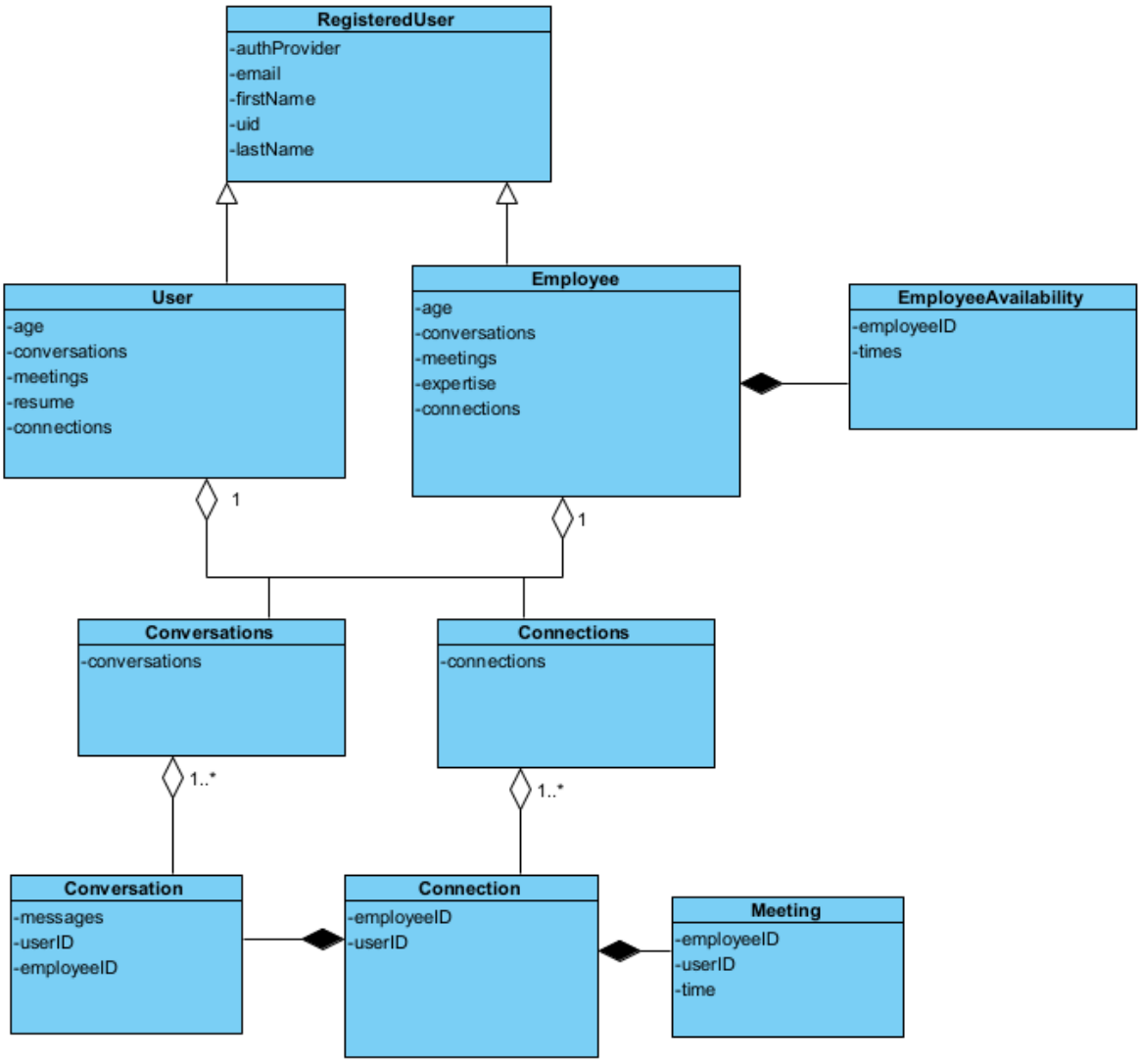
Conversations:

messages	Array (strings)
userID	String
employeeID	String

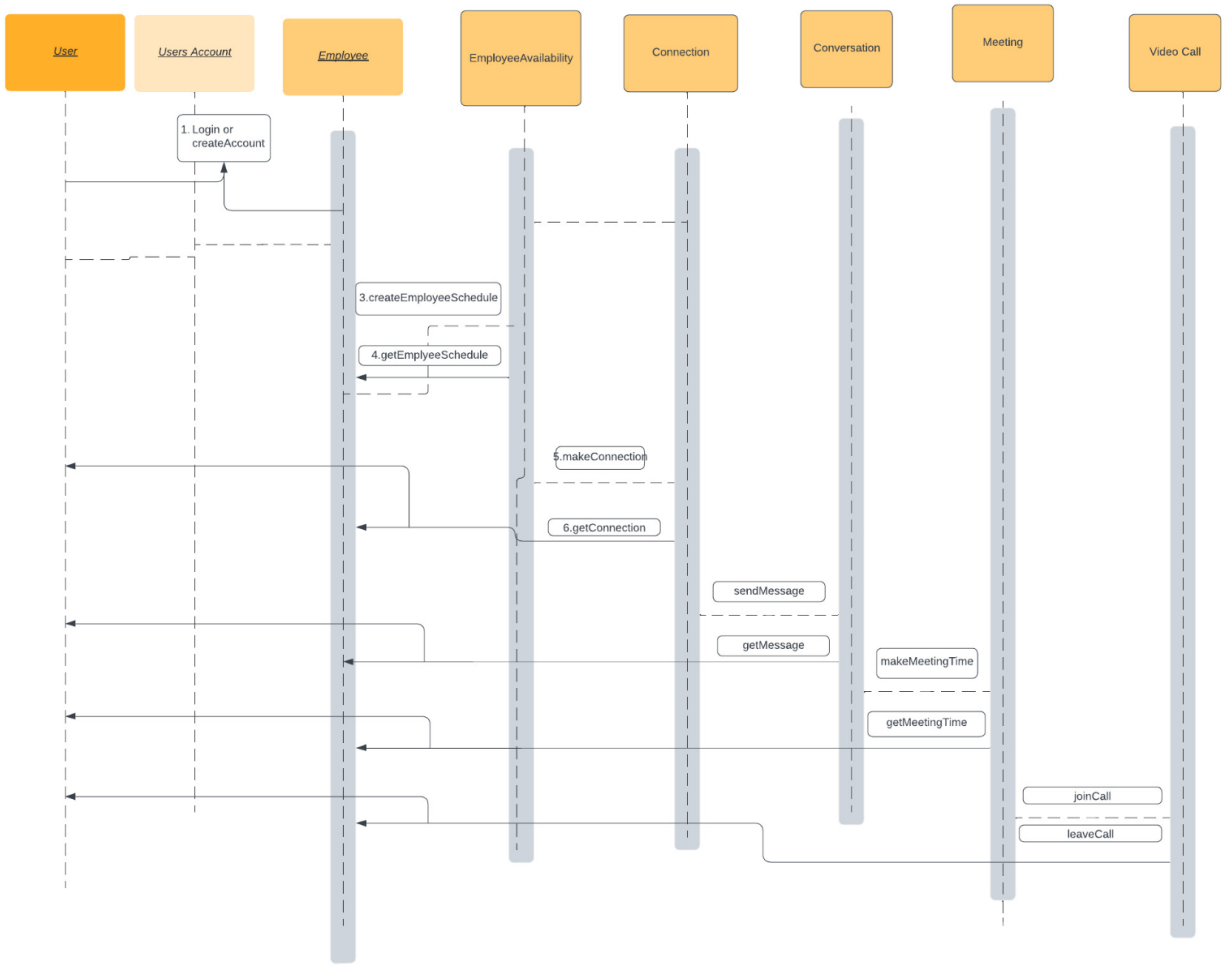
Add/Delete/Search Architecture	**Functional Requirement**
Add/Delete/Search for Users	when Users register
Search/Display for Employees	when Users search for Employees to connect with
Add/Search/Display for Connections	when Users connect with an Employee and search through their own Connections, so that they can view who they're connected with
Add/Search/Display for Conversations	when Users choose which Employee to message to start a Conversation or view their existing Conversations.
Add/Display for Resume	when Users upload their resume, to be displayed on their profile.

Add/Display for EmployeeAvailability	when Employees show their current availability for Users to see

5. High level UML Diagrams



5. High level UML Continued



6. Identify actual key risks for your project at this time

- Skill Risks

We have teammates of varying levels of understanding and abilities, so we have tried to pair people up to work on specific pieces of the project so that if something is beyond someone, we have someone working with them that can help steer them into a better understanding. We

are always very open with communication about what is being worked on and if someone needs help, and that way all of the technologies will be covered by someone.

- Schedule Risks

  As of right now the only schedule related risks are more of a teamwork issue than a “schedule” issue which will be covered. We do a great job of communicating and meeting regularly. We meet twice a week outside of class so that if someone can’t be at one meeting there will be another they can attend.

- Teamwork Risks

  We have had varying levels of effort put in from teammates which has led to other teammates having to shoulder and complete more work than agreed on to meet deadlines. We have a lot of work to do and to complete this everyone will need to pull their own weight. To help correct this, we will be adjusting how we talk about accountability and being more vocal about progress on work and learning more frequently.

- Legal Risks

  Up to this point we have not encountered any issues with legality or content.

7. Project management

For project management, we have the team broken up into frontend and backend. We have 3 people working on the frontend and 4 people working on the backend. The leads work with their respective teams to set goals and deadlines, as well as provide support and helpful resources. We have used tools like Figma to design the flow together as a group.

We use discord as a way to communicate daily. Our discord group is broken up into several threads so that the teams working on specific areas of the project can communicate without interfering with others. We meet every Monday and Friday, along with class on Wednesday, that way there is always an opportunity to meet in person outside of class to discuss goals and strategies. As a team, we try to delegate tasks according to teammates’ respective strengths and abilities that way they are able to accomplish what is needed from them. Our team keeps a big emphasis on communication. At each meeting we share what we are all working on and learning, and how that progress is going.

For planning, we set deadlines for tasks that need to be accomplished after agreeing on them together as a group. We try to be very proactive in planning and working on things that way if/when we run into obstacles we have time to address and fix them.