

# SW Engineering CSC648-848-05 Spring 2023

## ULingual

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### Milestone #3

M3V2	5/22/23
M3V1	4/27/23
M2V2	4/25/23
M2V1	4/4/23
M1V2	4/3/23
M1V1	3/5/23

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## Data Definitions V3

### Main data items:

#### 1. Images:

- 1.1. This main data item shall be a component that is used in registered user profiles—where the user can upload images of themselves, a component that is used in courses where part of the lessons shall have images where the registered user shall have to identify what the image is in translation to their given learning language.
- 1.2. Images relative to registered user profiles via phone shall display 110x110 pixels, on desktop it shall be 180x180 pixels. Upon uploading profile pictures, the image shall be at least 320x320 pixels—but shall be scaled down to fit the circle template profile picture.
- 1.3. Images relative to lessons where the registered user shall identify a given image in the language they are trying to learn shall be at least 500x500 pixels.

#### 2. Pages:

- 2.1. This main data item shall be a component that the registered user will scroll through and iterate through different subsections of our service. The registered user shall be able to scroll down these given pages and interact and iterate through other pages within our service, given the registered users desired subsection choice.
- 2.2. Pages shall encapsulate the entire screen of the registered user—relative to the size of the user's device. Pages shall be scaled properly for both mobile and desktop devices.

#### 3. Posts:

- 3.1. This main data item is a component that shall give registered users access to write and publicly post their experience of their engagement with other registered users via posting a review or posting their rating

experience. This data shall give users a good idea of how other registered users interact.

**4. Progress Bar:**

**4.1.** This main data item shall be a component that saves the registered users progress in regards to their course learning for a given language. The more they learn and the farther they are into their course made by ULingual, the further their progression bar shall be.

**5. Language Title:**

**5.1.** This main data item shall be a component that gives the registered user information regarding their language choice.

**5.2.** This main data item shall be a component that gives the registered user information regarding their native language they speak.

**6. Forum Title:**

**6.1.** This main data item shall be a component that gives the registered user information regarding the title of a given forum where the user can decide if they want to click on the forum title and participate in the given discussion. Forum titles shall contain phrases that categorize content upon registered user discussion.

**7. Forum Content:**

**7.1.** This main data item shall be a component that has all the registered users' comments in relation to a given forum title. Within the forum content the registered user shall be able to view and comment on other registered users' discussions and make their own comments and questions in the forum so that others shall be able to comment on it as well.

**8. Miscellaneous (Recommended) Content:**

**8.1.** This main data item shall be a component that contains and stores ULinguals miscellaneous alternatives for registered users to learn; via music playlists, book recommendations, and show/movie recommendations. These forms of content shall be relative to the registered user's choice of language they desire to learn or improve upon.

**9. Registered User Profile:**

**9.1.** This main data item shall be a component that contains a registered user's information in terms of friend count, description, language learning, native language, and profile picture.

**9.2.** This main data item shall be edited by the registered user to update their profile.

**10. Messages:**

**10.1.** This main data item shall be a component that stores a conversation between two registered users.

**10.2.** This main data item shall be within the Inbox section of a user's profile.

**Entities:**

**1. Tutors:**

**1.1.** An entity that created an account and is a verified personnel that excels in a given language.

**1.2.** This entity can sign in from different devices.

**1.3.** This entity shall have a unique username and password.

**1.4.** This entity shall have a unique tutor symbol assigned to them.

**1.5.** This entity shall have their first and last name listed within their profile as they are verified personnel.

**2. Registered User:**

**2.1.** An entity that created an account and can sign in from different devices.

**2.2.** This entity shall have a unique username and password.

**2.3.** This entity shall have access to courses provided within ULingual.

**2.4.** This entity shall have the ability to book an appointment with a tutor.

**2.5.** This entity shall have access to playlists, books, & shows recommended by ULingual in relation to the language the user desires.

**2.6.** This entity shall have access to flashcards, global forums, exercises, and video rooms.

**2.7.** This entity shall have friends, where a registered user can become friends with another registered user.

- 2.8. This entity shall have an inbox section within their profile that allows them to view incoming friend requests, and new video room invites via unique id.
- 2.9. This entity shall be able to customizable their profile for public display. Some customizable features shall include: description of profile, language learning, language knowledge, and profile picture
- 3. **General User:**
  - 3.1. This entity shall be able to view a limited amount of pages within the site.
  - 3.2. This entity shall have the ability to register for an account.
  - 3.3. This entity shall have the ability to view our terms and conditions prior to registering for an account.
- 4. **Exercises:**
  - 4.1. This entity shall have exercises that the user can complete independently of video connection with other users. These exercises can include completing given sentences, matching pictures to words, and listening to a phrase and identifying what the phrase means in the user's given language choice.
- 5. **Global Forums:**
  - 5.1. This entity shall be accessible by all users and tutors where they are able to interact with each other via text chat threads. Here is where users and tutors can answer questions, share information regarding language, and potentially make new friends.
  - 5.2. This entity shall have text chat threads that are broken down into sections. Based on these sections, the user can access different information that other users and tutors publicly post and share.
- 6. **Video Rooms:**
  - 6.1. This entity shall be a place where users can either connect with another registered user or a tutor to exchange and learn a language of their desire.

This shall also be a space where users can also have a potential karaoke party with other users.

**6.2.** This entity shall be accessible via a unique ID code for a registered user to join a video room.

**6.3.** This entity shall have a chat box section where registered users within a given video call room can message each other in case they are unable to use their microphone.

**7. Miscellaneous(Recommended) Content:**

**7.1.** This entity shall contain music playlist recommendations in relation to the user's desired language choice. Here the user can see and browse music that people are listening to in their respective language learning choice.

**7.2.** This entity shall contain book recommendations in relation to the user's desired language choice. Here the user can view popular books written by authors whose natural language is in relation to the user's respective language learning choice.

**7.3.** This entity shall contain movies and show recommendations in relation to the user's desired language choice. Here the user can view popular shows and movies that were made in the natural language that's in relation to the user's respective language learning choice.

**8. Flashcards:**

**8.1.** This entity shall contain digital cards where the user can add a word and its translation to the language they are learning on the back, as a form of learning for the user.

**9. Inbox:**

**9.1.** This entity shall allow users to send each other messages to obtain video room IDs to join a video call.

**9.2.** This entity shall contain the title of the message being received.

**9.3.** This entity shall contain the content of the message being received.

**9.4.** This entity shall contain the date & time the given message was received.

**10. Appointments:**

- 10.1.** This entity shall allow registered users to book a select time slot with a tutor to have a greater learning experience within their given language they are learning.
- 10.2.** This entity shall be accessible to registered users.

## **Functional Requirements V3**

**Priority 1:**

**1. General User:**

- 1.1.** A general user shall be able to register for an account at ULingual.
  - 1.1.1.** A general user shall be able to select the language they want to learn upon registration.



- 1.1.2. A general user shall be able to select what language they are native in upon registration.
- 1.2. A general user shall be able to access our Contact Form to send ULingual an inquiry email.
- 1.3. A general user shall be able to view the About Us page to see further details revolving around ULingual.
- 1.4. A general user shall be able to view the Frequently Asked Questions page to see common questions ULingual receives.
- 1.5. A general user shall be able to view our Terms and Conditions page prior to registering an account.
- 1.6. A general user shall be able to access our search bar to search for tutors or native speakers by name or language.

## **2. Registered User:**

- 2.1. A registered user shall be able to login with a username and password.
- 2.2. A registered user shall be able to logout of their account.
- 2.3. A registered user shall be able to access our Contact Form to send ULingual an inquiry email.
- 2.4. A registered user shall be able to view the About Us page to see further details revolving around ULingual.
- 2.5. A registered user shall be able to view the Frequently Asked Questions page to see common questions ULingual receives.
- 2.6. A registered user shall be able to access our search bar to search for other registered users by name or language.

- 2.6.1.** A registered user shall be redirected upon search submission to the results page for their search.
  - 2.6.2.** A registered user search result shall be filtered by the alphabetic language relation they search to display other registered users who are native in the language searched.
  - 2.6.3.** A registered user search result shall be filtered by alphabetic name relation to other registered users.
- 2.7.** A registered user shall be able to view their own profile.
  - 2.7.1.** A registered user profile shall display the language the registered user is learning.
  - 2.7.2.** A registered user profile shall display the amount of friends the registered user has.
  - 2.7.3.** A registered user profile shall display the language the registered user is native in.
  - 2.7.4.** A registered user profile shall display the description of the registered user.
  - 2.7.5.** A registered user profile shall display the profile picture of the registered user.
  - 2.7.6.** A registered user profile shall display the username of the registered user.
- 2.8.** A registered user shall be able to edit their own profile.
- 2.9.** A registered user profile shall display a “Edit Profile” button that allows registered users to edit their profile.
  - 2.9.1.** A registered user shall be able to upload a photo in place of their profile picture.
  - 2.9.2.** A registered user shall be able to edit the description of their profile.

- 2.10.** A registered user shall be able to change what language they want to learn within their profile.
- 2.11.** A registered user shall be able to edit their username.
- 2.12.** A registered user shall be able to view their friends list.
- 2.13.** A registered user shall be able to view their friends profile.
- 2.14.** A registered user shall be able to access the main dashboard.
- 2.15.** A registered user shall be able to access Global Forums within the dashboard.
  - 2.15.1.** A registered user shall be able to comment under a forum post.
  - 2.15.2.** A registered user shall be able to create a new forum post.
- 2.16.** A registered user shall be able to access Video Rooms within the dashboard.
  - 2.16.1.** A registered user shall be able to create a video room.
  - 2.16.2.** A registered user shall be able to join a video room.
- 2.17.** A registered user shall be able to access our Miscellaneous Content within the dashboard.
  - 2.17.1.** A registered user shall be able to access a list of book recommendations in their desired language they are learning.
  - 2.17.2.** A registered user shall be able to access a list of movie and tv show recommendations in a specified language.
  - 2.17.3.** A registered user shall be able to access playlists of music in relation to the language they desire to learn.

**2.18.** A registered user shall be able to access our Flashcards within the dashboard.

**2.18.1.** A registered user shall be able to access generated flashcards as a small test for their desired language.

**2.18.2.** A registered user shall be able to create their own flashcards within the flashcard page.

**2.19.** A registered user shall be able to access their inbox within their profile.

**2.19.1.** A registered user shall be able to accept or reject friend requests within their inbox.

**3. Global Forums:**

**3.1.** The global forums shall display the name of the forum title.

**3.2.** The global forums shall display the amount of comments within the forum.

**3.3.** The global forums shall be sorted by relevance based on newest post.

**3.4.** The global forums shall display a return button per forum to go back to the main global forums page.

**4. Video Rooms:**

**4.1.** The video rooms shall display a mute/unmute button where registered users can mute/unmute themselves during a video call.

**4.2.** The video rooms shall display a leave call button where registered users can leave a video call.

**4.3.** The video rooms shall display a Video On/Off button where registered users can turn their camera off or on in a video call.

**5. Flashcards:**

**5.1.** The flashcards shall be viewed by registered users.

**5.2.** The flashcards shall be formatted into two sides: Word/Phrase & Translation of given Word/Phrase.

**5.3.** The flashcards shall be displayed based on registered users selected language choice upon registration.

**6. Miscellaneous Content:**

- 6.1. The miscellaneous content shall be displayed by category of “Books”, “Movies & Shows, and “Music Playlists”.
- 6.2. The miscellaneous content shall only be accessible by registered users.
- 6.3. The miscellaneous content shall display links where registered users can access this content to either purchase or enjoy for free.
- 6.4. The miscellaneous content shall display a title of the content we are suggesting to registered users.

**7. Inbox:**

- 7.1. The inbox shall be displayed within a registered user profile.
- 7.2. The inbox shall display pending friend requests.
- 7.3. The inbox shall display messages based on the most recent notification.
- 7.4. The inbox shall display the time and date a message was received.

**Priority 2:**

**1. General User:**

- 1.1. A general user shall be able to view the Tutors page to see the list of Tutors we offer.

**2. Registered User:**

- 2.1. A registered user shall be able to view the history of a given language they are learning within the dashboard.
- 2.2. A registered user shall be able to access the lessons page within the dashboard.
  - 2.2.1. A registered user shall be able to go access the structured lessons categorized by “Basics”, “General Phrases”, “General Greetings”, “Advanced Phrases”, “Corporate Conversations”, “Family Conversations”, “Ordering Food Conversation”, “Past Tense”, “Present Tense”, and “Future Tense”

- 2.2.2.** A registered user shall be able to view their lessons progression through a graphical visualization.
- 2.3.** A registered user shall have access to a list of recommended traveling locations based on their language selection.
- 2.4.** A registered user shall be able to view the Tutors page to see the list of Tutors we offer.
- 2.5.** A registered user shall be able to view a tutors profile.
- 2.6.** A registered user shall be able to book an appointment with a tutor within the tutors profile.
- 2.7.** A registered user shall be able to leave a review on their experience with tutors.
  - 2.7.1.** A registered user shall be able to leave a rating out of 5 stars .
  - 2.7.2.** A registered user shall be able to leave a comment as part of the review.
- 2.8.** A registered user profile shall display a “report user” button to report a registered user's misconduct.
- 2.9.** A registered user profile shall display a twitter icon and instagram icon to allow registered users to link their social media to their account.
- 2.10.** A registered user shall be able to access Exercises within the dashboard.
  - 2.10.1.** A registered user shall be able to test their language knowledge by taking ULinguals custom word matching exercises in their desired language.
  - 2.10.2.** A registered user shall be able to test their language knowledge by taking ULinguals custom object identification exercises in their desired language.

**2.10.3.** A registered user shall be able to test their language knowledge by taking ULinguals custom fill in the blank sentence exercises in their desired language.

**2.10.4.** A registered user shall be able to edit the status of their profile to either, Online, Offline, or Do Not Disturb.

**3. Exercises:**

**3.1.** The exercises shall be displayed into the categories of “Fill in the Blank”, “Word Matching”, and “Object Identification”.

**3.2.** The exercises shall display whether the registered user selected the correct or incorrect answer.

**3.3.** The exercises shall display the amount of questions that are within the categories of “Fill in the Blank”, “Word Matching”, and “Object Identification”.

**3.4.** The exercises shall be retaken by the registered user as many times as the registered user wants.

**3.5.** The exercises shall display a progress bar to visually help registered users see their progress in the categories of “Fill in the Blank”, “Word Matching”, and “Object Identification”.

**4. Tutor:**

**4.1.** A tutor shall be able to register for an account at ULingual.

**4.2.** A tutor shall be able to login with a username and password.

**4.3.** A tutor shall be able to logout of their account.

**4.4.** A tutor shall be able to view their own profile.

**4.5.** A tutor shall be able to edit their own profile.

**4.5.1.** A tutor shall be able to upload a photo in place of their profile picture.

- 4.5.2.** A tutor shall be able to set up their pricing costs for tutoring within their profile.
    - 4.5.3.** A tutor shall be able to describe their teaching style and what languages they teach within their profile.
  - 4.6.** A tutor shall be able to set up their availability to tutor others within their profile.
  - 4.7.** A tutor shall be able to access our Contact Form to send ULingual an inquiry email.
  - 4.8.** A tutor shall be able to view the About Us page to see further details revolving around ULingual.
  - 4.9.** A tutor shall be able to view the Frequently Asked Questions page to see common questions ULingual receives.
  - 4.10.** A tutor shall be able to access the main dashboard.
    - 4.10.1.** A tutor shall be able to access Video Rooms within the dashboard.
    - 4.10.2.** A tutor shall be able to access Global Forums within the dashboard.
- 5. Appointments:**
  - 5.1.** The appointments shall be displayed within a tutors profile page.
  - 5.2.** The appointments time slot and date slots shall be editable by a tutor within their profile.
  - 5.3.** The appointments shall be booked by a registered user within a tutors profile.
  - 5.4.** The appointments shall generate a unique ID that will give tutors and the registered users who booked the appointment access to their video room.
- 6. Video Rooms:**
  - 6.1.** The video rooms shall display a chatbox where registered users in a video room call can text each other.





- 3.2. A tutor shall be assigned a custom badge next to their username to distinguish themselves in the forums.

## Wireframes Based on your Mockups/Storyboards V2

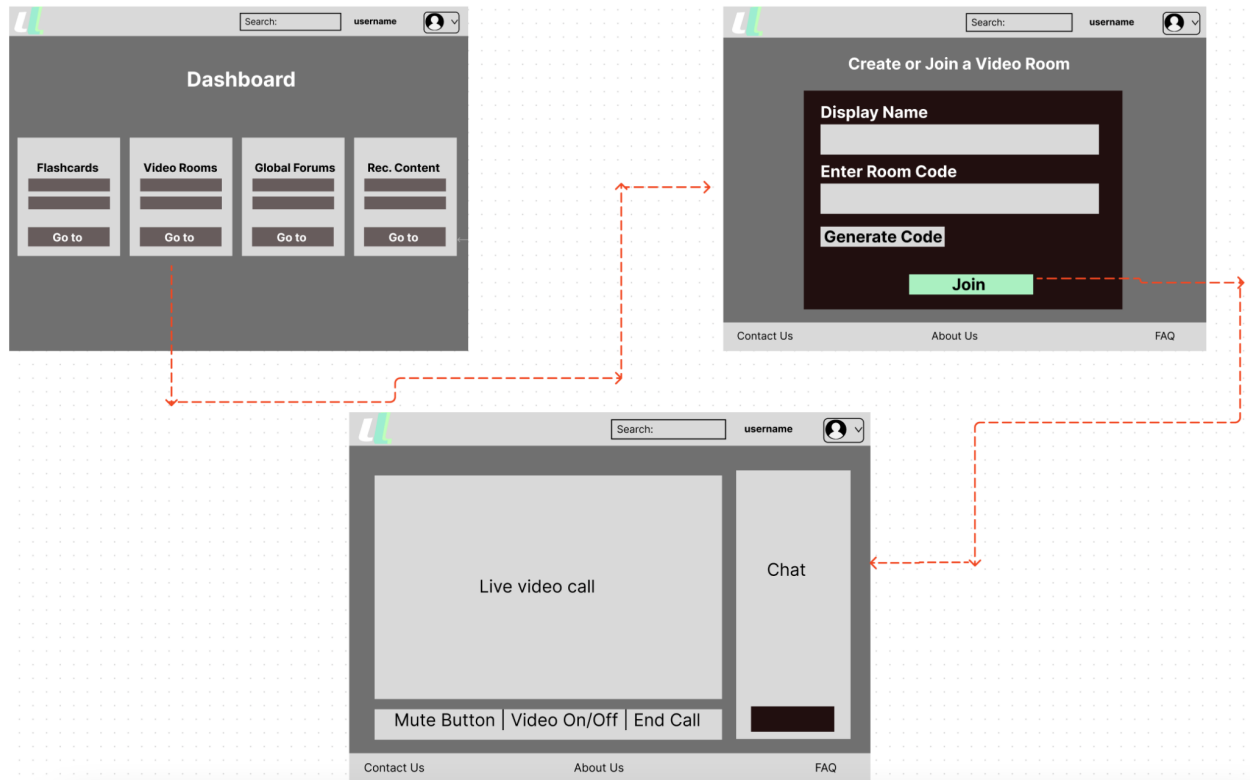
### 1.) Creating a ULingual Account:



A general user interested in ULingual shall be able to create an account to have access to our dashboard features. The general user can create an account by either clicking the sign up button on the home page or either the sign up button within the navigation bar. They will both redirect the general user to the registration page to create an account and become a registered user. Upon complete registration, the registered user

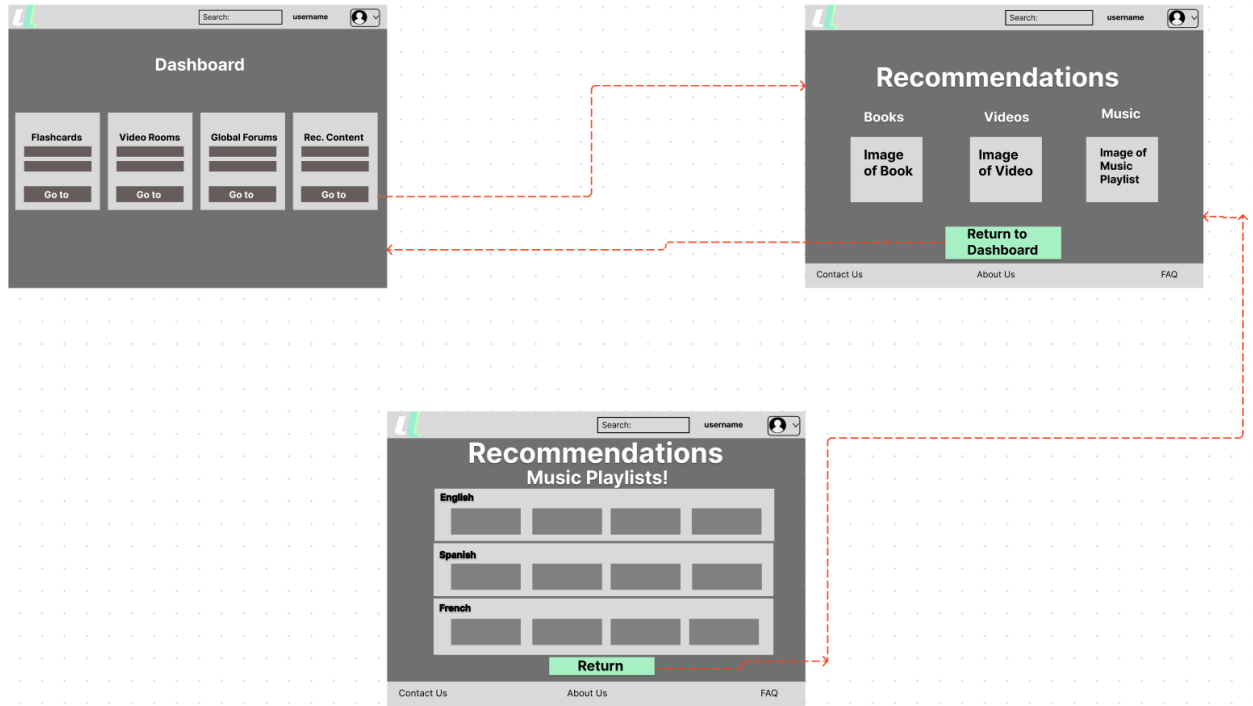
shall be redirected to the login page to enter their credentials and then get access to our dashboard.

## 2.) Joining a Video Room:



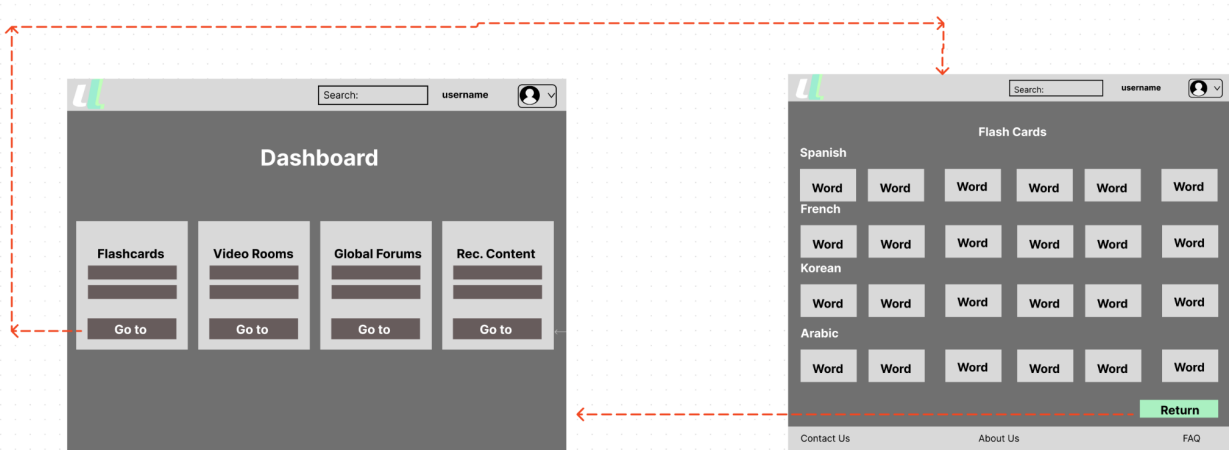
Once the registered user logs in, they shall be redirected to the dashboard where they can access all of ULinguals main features. To join a video room, the registered user shall click on the “Go To” button under the video rooms section of the dashboard which shall redirect the registered user to the video room lobby page. Within the video room lobby page a registered user can enter a room code their friend has created to join that given room, or generate a room code to create for the registered user and their friends to join. Upon clicking the join button, the registered user shall be redirected to the video room call page where they will be in a live video call with another registered user/i.e their friend.

## 3.) Access Recommended Music Playlists:



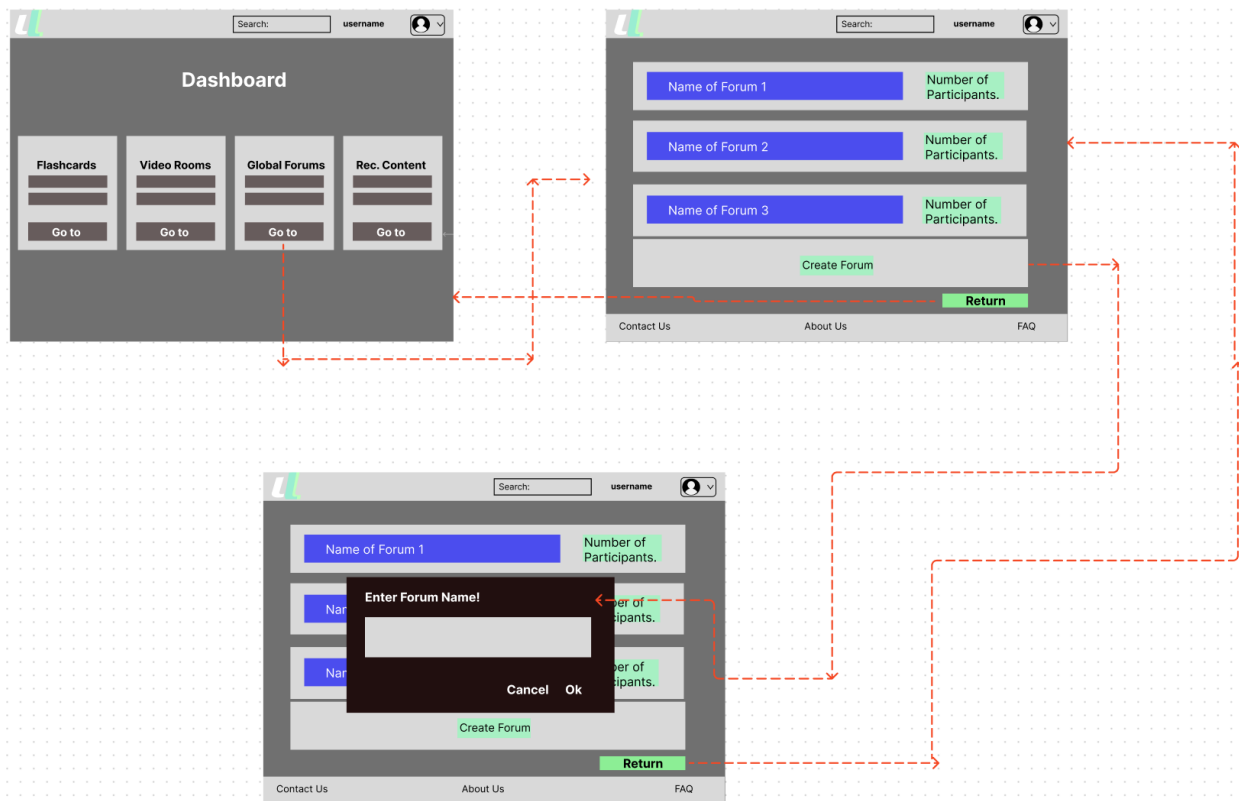
Once the registered user logs in, they shall be redirected to the dashboard where they can access all of ULinguals main features. To access music playlists, the registered user shall click on “Go To” under the Rec. Content section and this shall redirect the registered user to the recommendations page. Within the recommendations page, the registered user shall have access to recommended books, videos, and music playlists. In this specific case, when the registered user clicks on the “Music” Section within our recommendations page, it shall redirect the registered user to a few recommended playlists in the language they are learning to help them further get used to the language they are learning. If the registered user wants to go back to the recommendations page, they shall click the return button and it shall direct them back to recommendations. If the registered user wants to go back to the dashboard, they shall click the “return to dashboard” button that shall redirect them to the dashboard.

#### 4.) Accessing Flashcards:



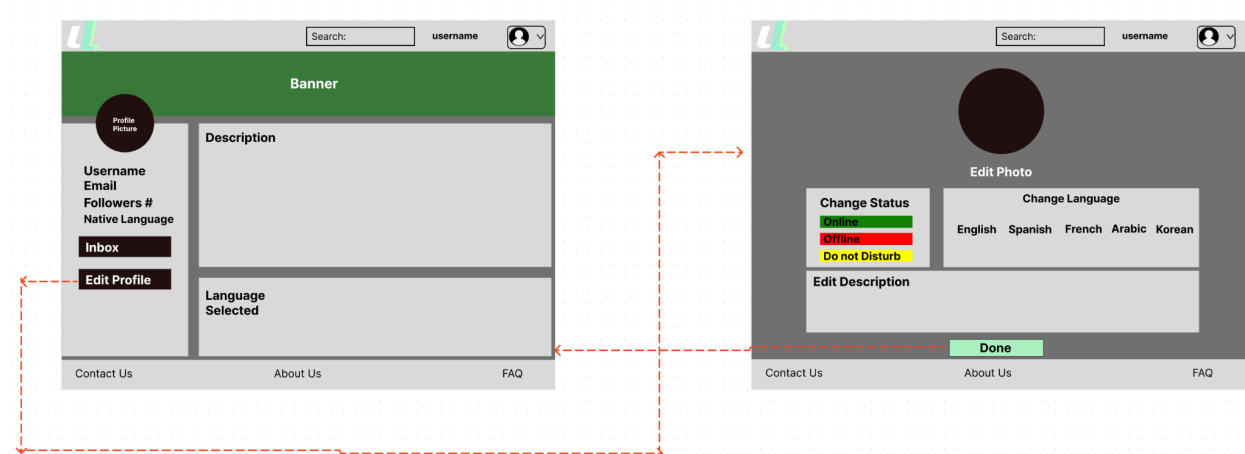
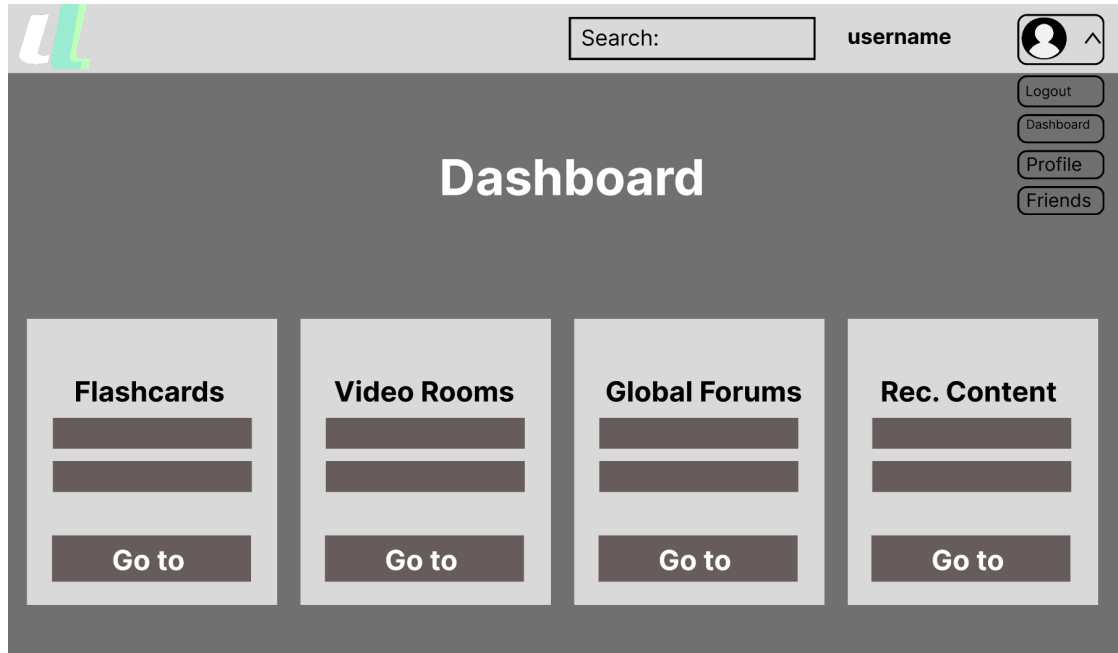
Once the registered user logs in, they shall be redirected to the dashboard where they can access all of ULinguals main features. To access flashcards the registered user shall click the button “Go To” under the clashcards section, and it shall redirect the registered user to the flashcards page. Within the flashcards page, the registered user shall be able to view words and phrases in the form of flash cards, allowing the user to practice the language they are learning as well as viewing other languages. If the registered user wants to return back to the dashboard, they shall click on the “return” button and it shall redirect the registered user to the dashboard.

## 5.) Creating a Forum:



Once the registered user logs in, they shall be redirected to the dashboard where they can access all of ULinguals main features. To create a forum, the user shall click on the “Go To” button within the global forums section of the dashboard. This shall redirect the registered user to the global forums page where they can view all the forums posted within ULingual. To create a forum, the registered user shall click on the “create forum” button. When the registered user does this, a pop-up shall appear asking the registered user to enter the name of the forum to be created. Once the registered user clicks “Ok”, their forum shall be added to the global forums page. If the registered user wants to go back to the dashboard, they shall be able to do so by clicking the “return” button within the global forums page, and this shall take the registered user back to the dashboard.

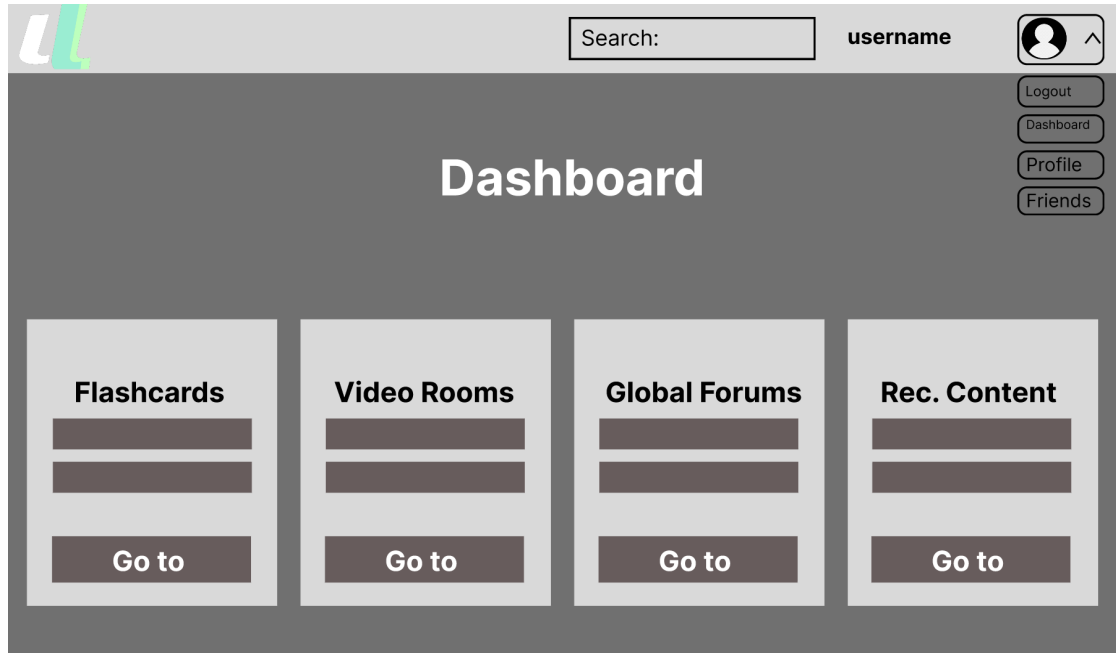
## 6.) Editing Your Profile:



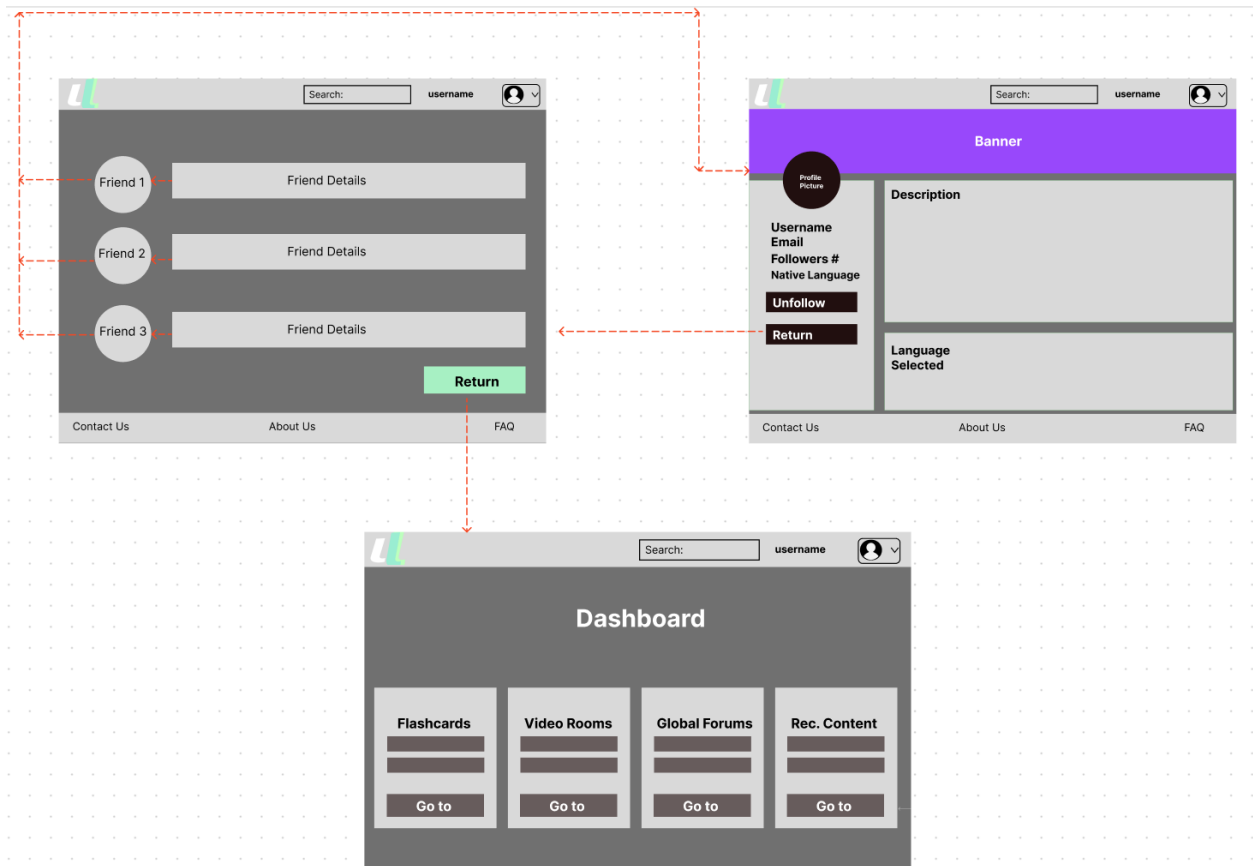
Once the registered user logs in, they shall be redirected to the dashboard where they can access all of ULanguage's main features. Upon logging in, a registered user can access the drop down menu within the navigation bar next to their username. When the registered user clicks on the "Profile" section of the drop menu, it shall redirect registered users to their profile page where they can see their profile picture, description, language selected, username, email, follower count, and their native language they speak. They also shall be able to click on the "Edit Profile" button which shall redirect the registered user to their edit profile page. On this page the registered user shall be able to edit their description, language learning choice, profile picture, and profile status. Once the registered user completes these changes they shall hit the

“Done” button and it shall save their changes and redirect the registered user back to their profile page.

### 7.) Viewing a Friends Profile:



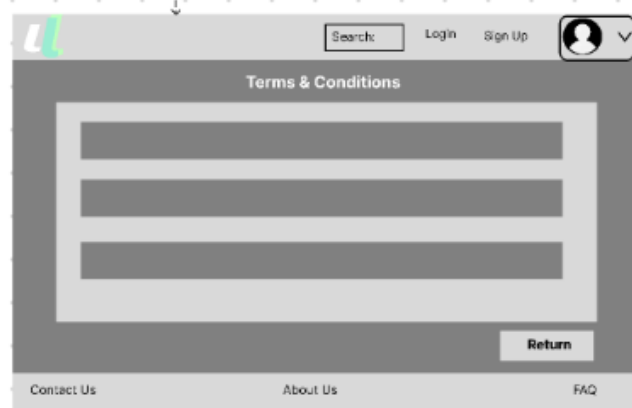


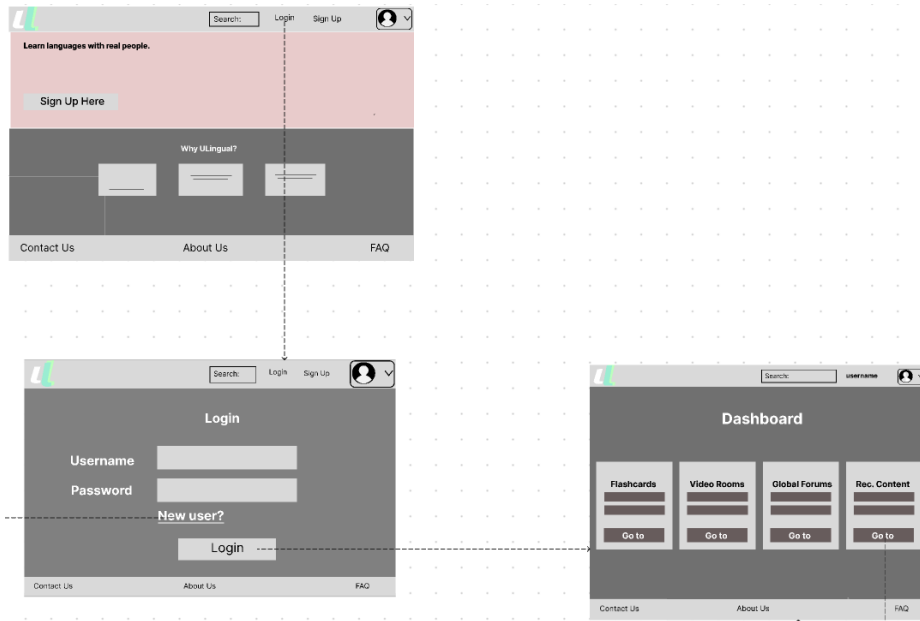


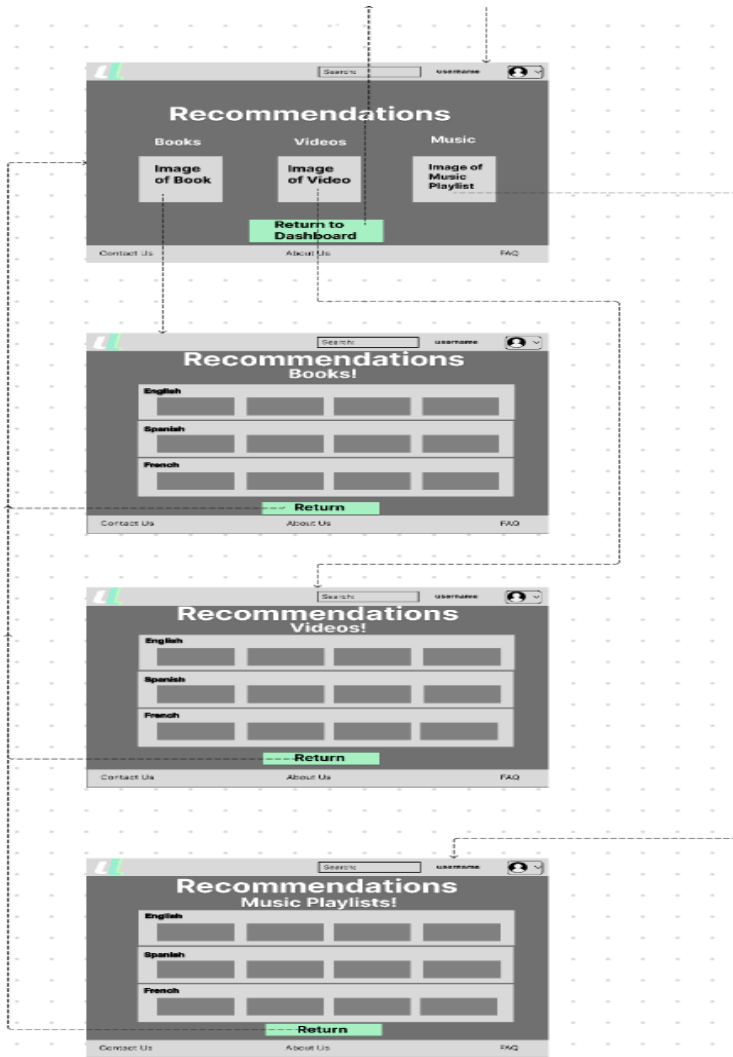
Once the registered user logs in, they shall be redirected to the dashboard where they can access all of Ulinguals main features. Upon logging in, a registered user can access the drop down menu within the navigation bar next to their username. When the registered user clicks on “Friends” from the drop down menu, it shall direct them to their friends list page that shows their friends profile picture as well as their friends username. When a registered user either clicks on their friends profile picture or username it shall redirect the registered user to their friends profile page. If the registered user wants to return to their friends list from a friends profile page, the registered user shall hit the “Return” button and it shall redirect them to their friends list. If the registered user wants to go back to their dashboard, the user shall hit the “Return” button from their friends list page, and it shall redirect them back to the dashboard.

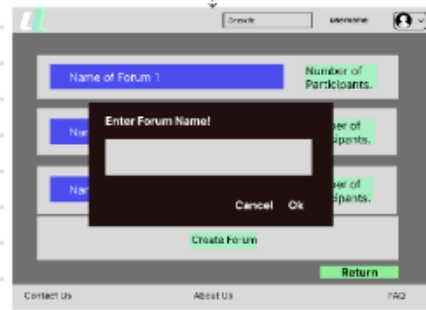
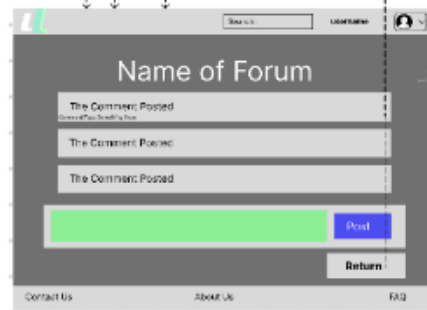
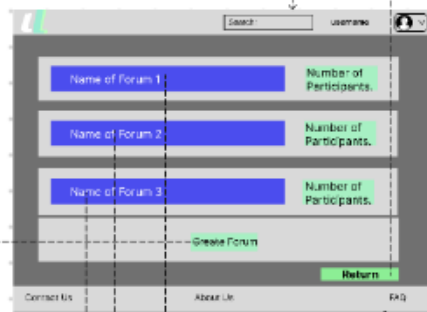
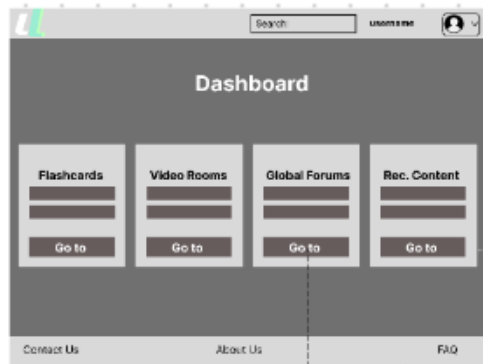
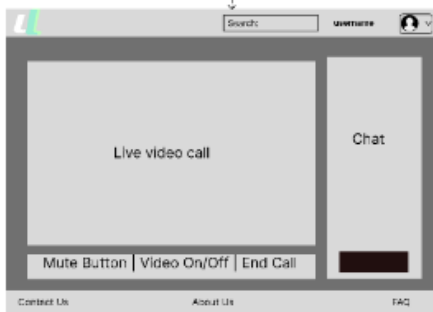
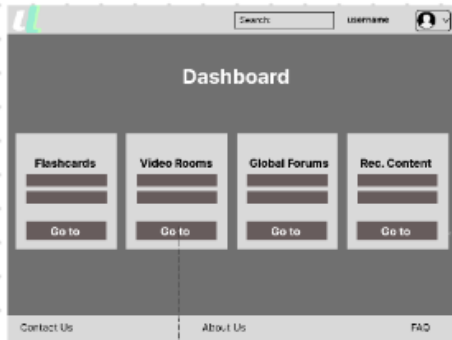
# Wireframes

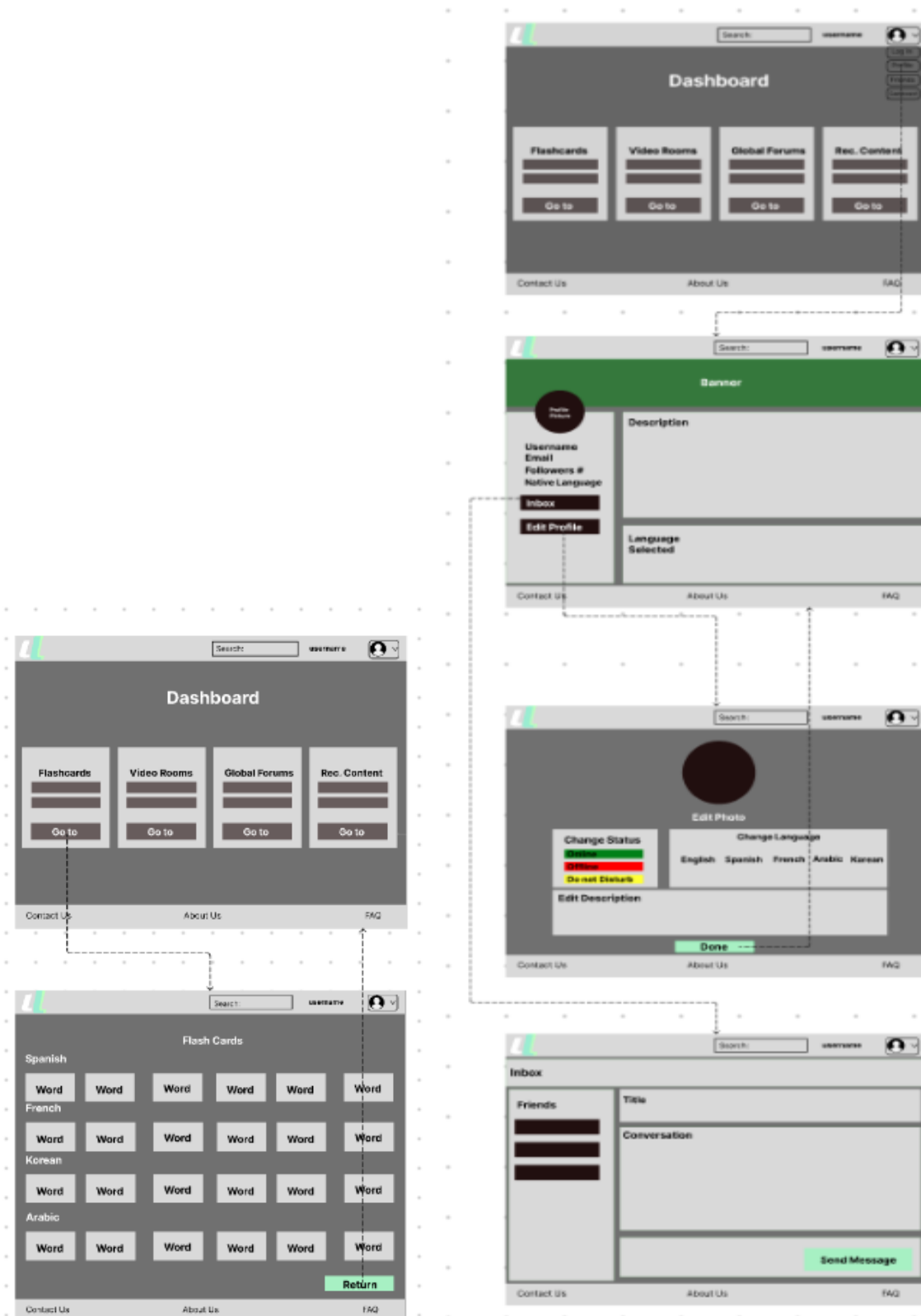


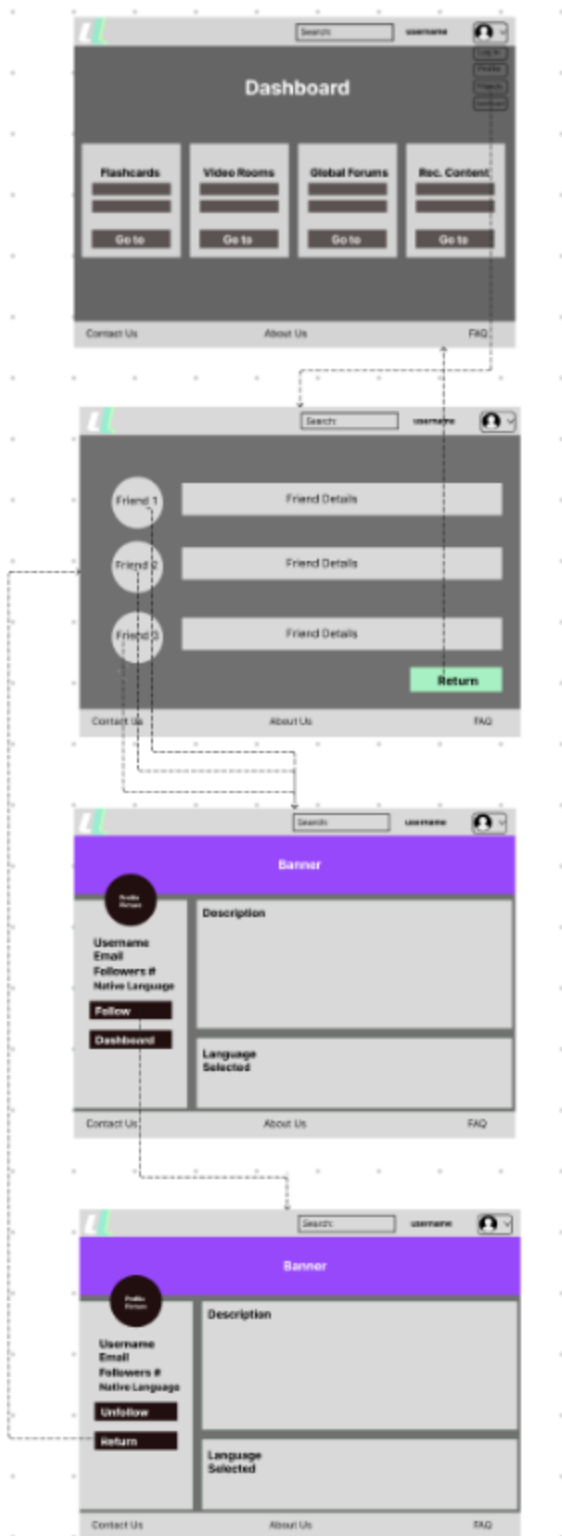




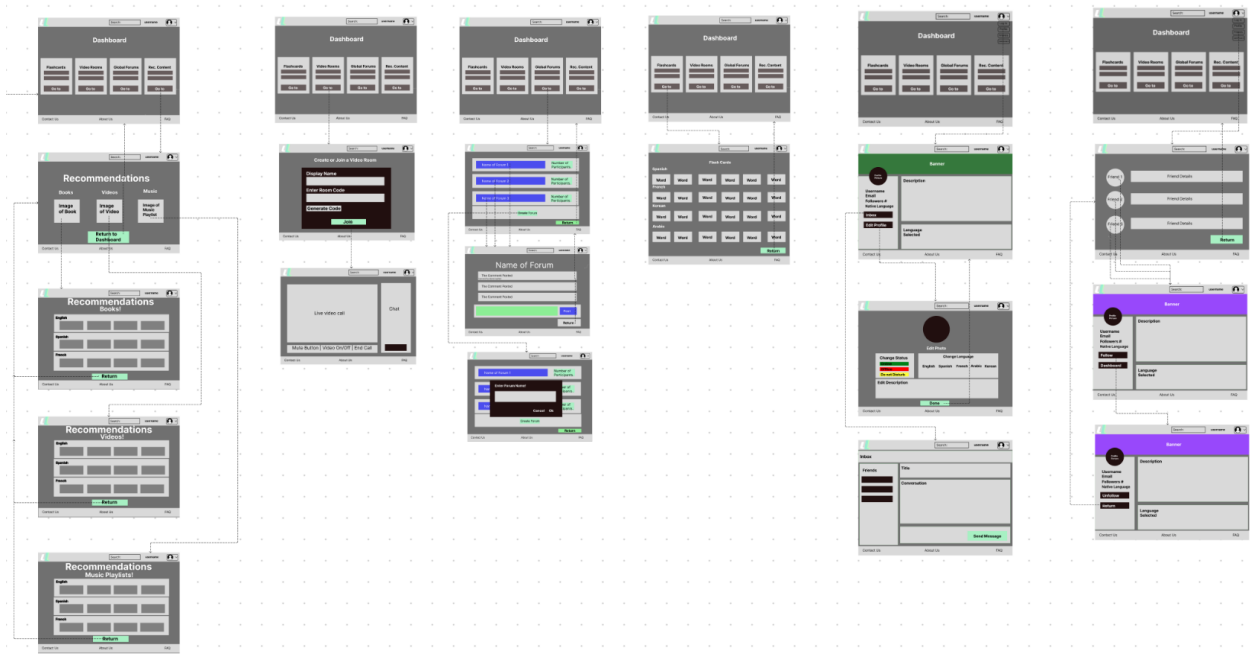
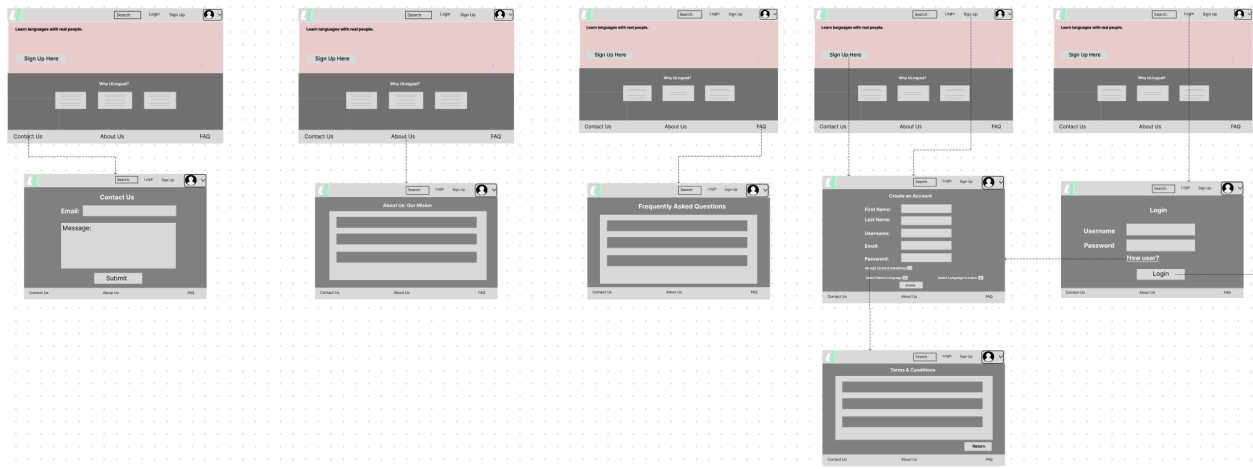








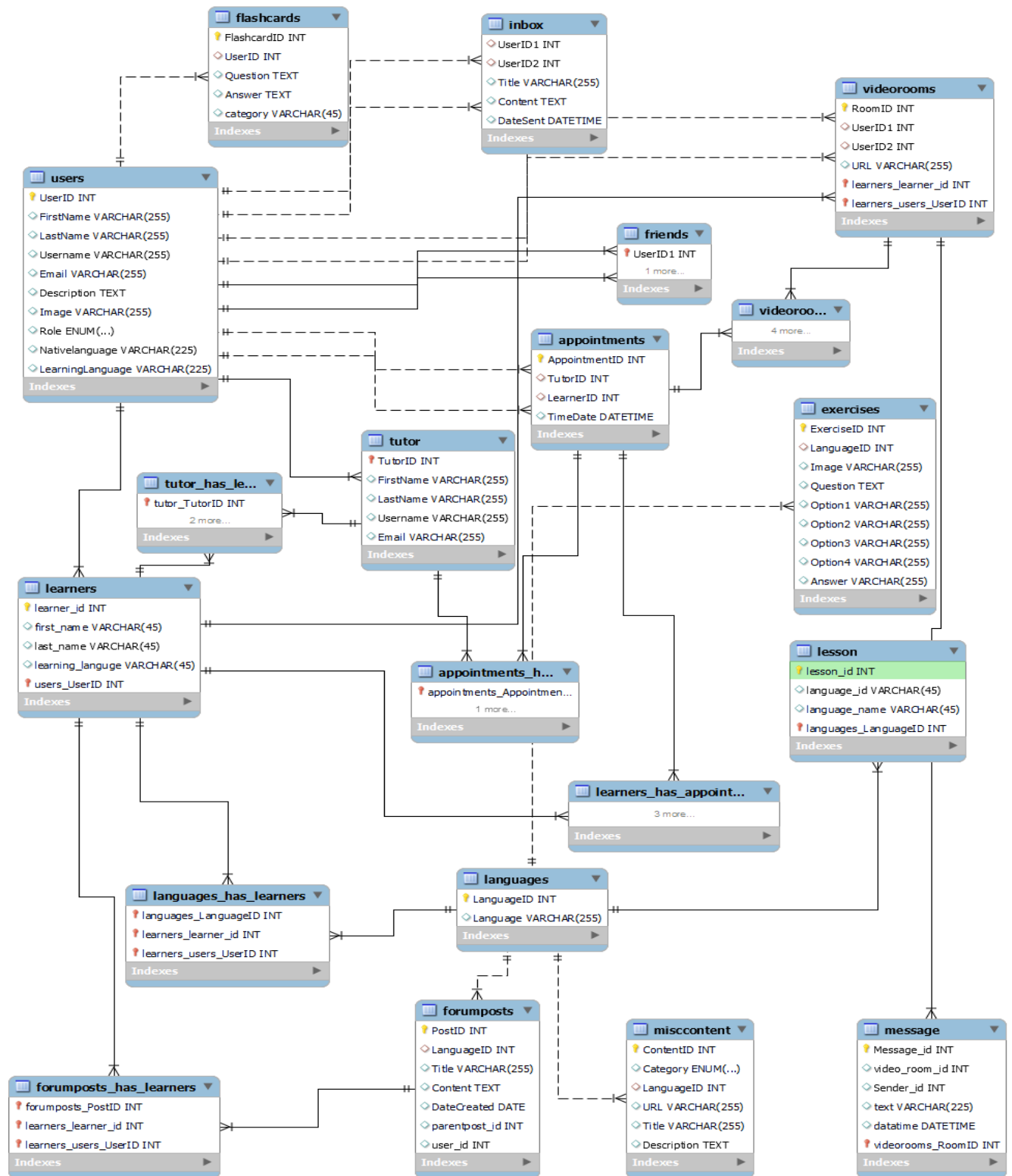




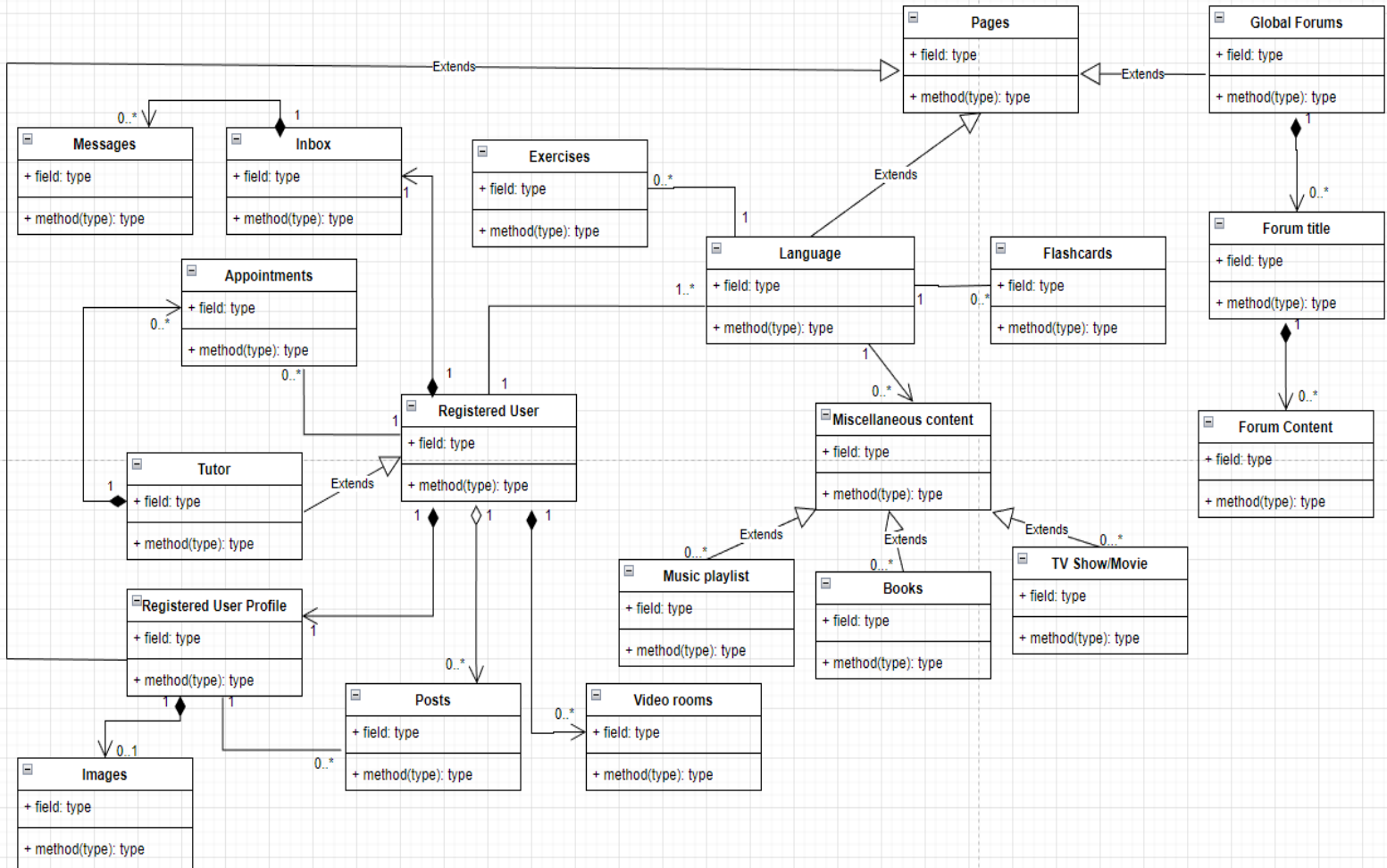
## ER Diagram



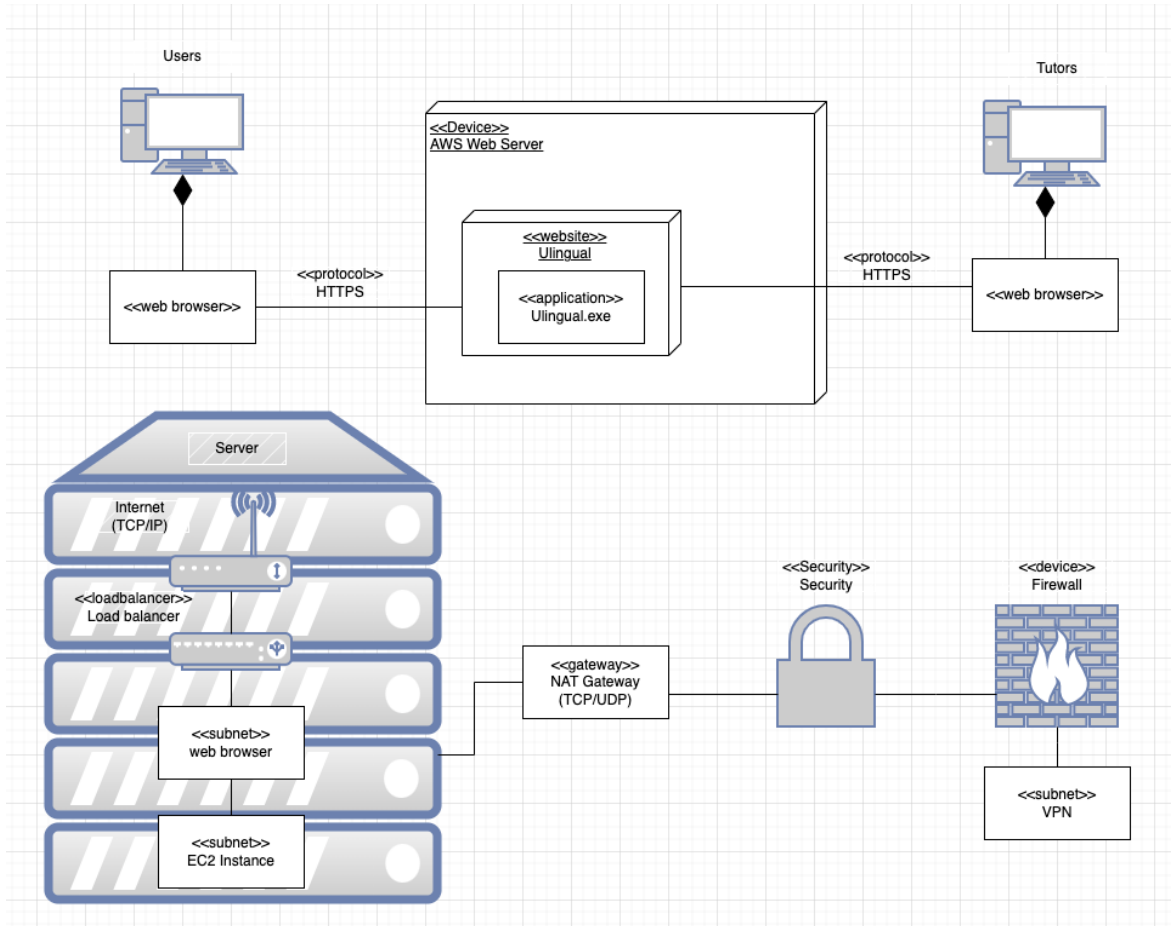
## EER Diagram



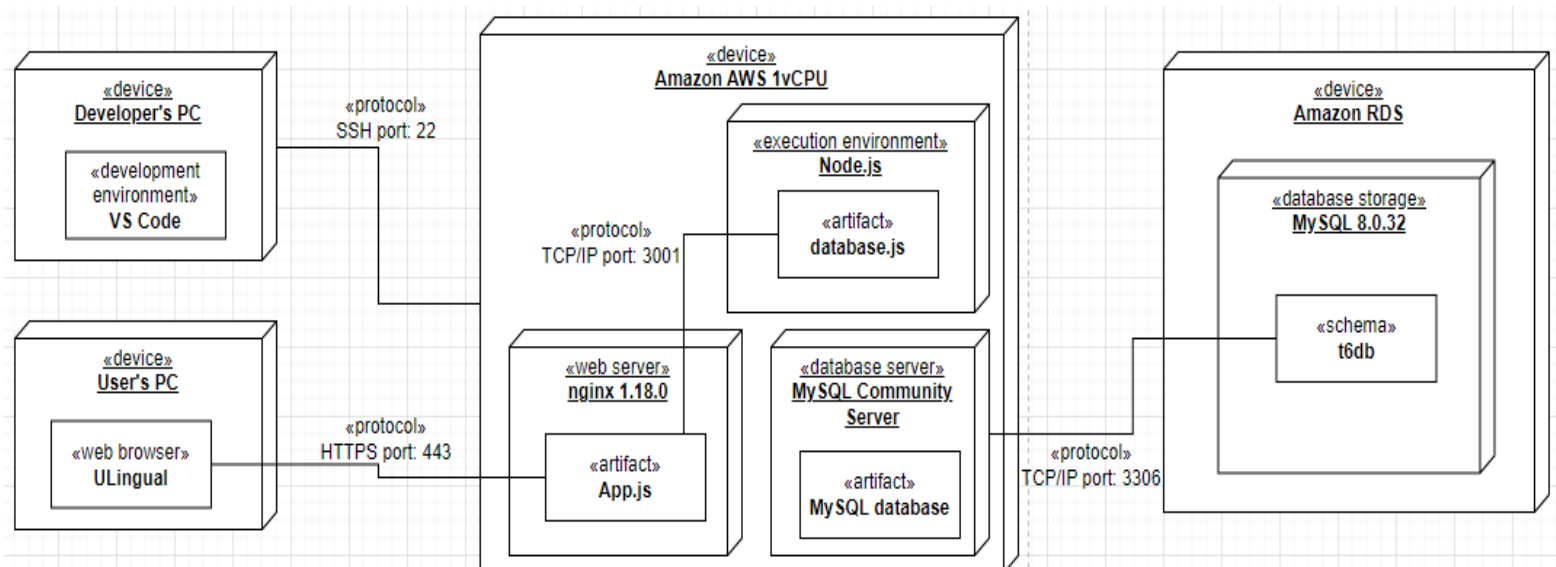
## UML Diagram



## Application Network Diagram



## Deployment Diagram



## **List of Contributions**

### **Sara Murad Ahmed Seid**

Contribution Score: 6

Sara contributed to the wireframes and I really appreciate her effort; however, I had to revise her wireframes because they weren't presentable. I was okay with revising though and it wasn't a big issue. Sara also did some template code for a couple of front-end pages. These pages were templates and I had to revise them to make them more presentable. I do appreciate her effort. For version 2, Sara didn't do much documentation adjustments for this section. I initially had her work on the wireframes but they were not very clear in visibility, especially the use case examples.

### **Steven Anthony Vasquez**

Contribution Score: 8

Steven helped with the initialization and progression of the backend for our website. Since we didn't get to complete that in M2 we did revise and solve this in M3 thanks to Stevens help. Steven also pointed out and requested a group meeting early on so everyone was on the same page towards our functional requirements as well as our priority towards them.

### **Nik Shahrul Nafiz Bin Nik Azhan**

Contribution Score: 10

Nik was a huge help to the front-end of M3, not only did he help with the wireframes but he also put in so much effort into coding the front-end template pages for our website—and a lot of these templates look really good. He's definitely been a team player for this milestone and contributed the most work. In version 2, Nik also helped me work on the figma files of the wireframes for the mockups and storyboards section. Nik also helped revise the section of the UML diagram as well.

### **Elias G Yetchalew**

Contribution Score: 8

Elias made good revisions to the database diagrams that weren't initially done correctly—which is okay because he fixed them now. Elias also shared

good thoughts and was good with communication in terms of moving forward with the database and making sure we as a team are on the same page for certain aspects of the website moving into M3V2. For version 2, Elias completely redid the entire database format to match better in alignment with what the website represents. Completely fixing the ERD and EER diagrams.

### **John Lee Santiago**

Contribution Score: 10

John has also been a huge help to M3, he's very helpful when it comes to pull/merge conflicts that we as a team run into sometimes because of delayed pushes and not getting into the habit of always pulling. Either way he's a great help with that and also he contributed a lot to the backend code to allow us to connect our mySQLworkbench database to the server. He also is trying his hardest, which I appreciate the most, especially when it comes to issues that arise from the ec2 instance. In version 2, John helped revise the section of the UML diagram as well as updating the deployment diagram.

### **Aidan Carl Stivers**

Contribution Score: 8

Aidan also helped with the initialization and progression of the backend for our website. As stated earlier, we didn't get to complete the backend part of M2 so we fixed this and solved it in M3 thanks to Aidans help as well. Aidan also pointed out and requested a group meeting early on so everyone was on the same page towards our functional requirements as well as our priority towards them. The functional requirements were a big component of the project moving forward so I appreciate both Aidans and Stevens' drive to make sure we are all on the same page.

### **Jonathan Oscar Valadez**

Helped with front-end pages including home page, login page, create account page, nav bar, footer, tutors page, tutor profile, price and plans, faq page, form page, about us page, and terms and conditions. Also helped

with documentation and revision section 1 of documentation. I further helped with the drop down menu that routed us to a lot of major pages we use: i.e dashboard, user profile, log in, and friends. Within version 2, I completely reformatted the functional requirements list by entities. I also completely redid the entire storyboards/mockups section making the use case flows more visible and clear.