

SW Engineering CSC648-848-01 Summer 2023

Zenful

Team 2 (Spider Computer Scientists)

Team Lead: Suzanne Heikal (sheikal@mail.sfsu.edu)

Front-End Lead: Kimon Monokandilos

Back-End Lead: Braden Dalit

Github Master(s): Suzanne Heikal/Braden Dalit

Jada Campbell

Lucas Soto

Edward Chen

Milestone 3

07/24/23

History Table:

Milestone's Versions	Date
M3V1	07/24/23
M2V2	07/24/23
M2V1	06/28/23
M1V2	06/26/23
M1V1	06/12/23

Table of Contents

Data Definitions.....	2
Functional Requirements.....	5
Wireframes Mockups.....	7
High Level Database Architecture & Organization.....	11
List of Contributions.....	15

Data Definitions

General User

The General User does not pertain to any entity. In order to become a “User” entity, the General User needs to register. The General User is essentially anyone who visits the Zenful web application for the first time, or does not have an account. The General User has access only to the Home Page, which contains step-by-step instructions on using Zenful. If the General User decides that they would like to use Zenful (Journal, Features) then they will need to complete Registration. In order to complete Registration, the General User will need to provide Zenful with a first name, last name, username, e-mail address, and password. Once the General User finishes the Registration process, they will become a Registered User.

Registered User

The Registered User pertains to the “User” entity, with attributes: Email(varchar), UserID(integer), Name(varchar), and Password(varchar). The Registered User is basically a General User that has completed the Registration process. The Registered User is now able to Login to use Zenful. In order to Login, the Registered User will need to provide their username and password, which they created during Registration. Upon logging in, the Registered User will have access to Zenful: a Journal and additional Features, which include animations and music. The Registered User is also able to log out at any moment.

Admin

The Admin also pertains to the “User” entity, with attributes: Email(varchar), UserID(integer), Name(varchar), and Password(varchar). The Admin differs from both the Registered User and General User in several ways. First, The Admin is a member of the Zenful team, so not anyone can become The Admin. Second, The Admin has access to all data on Zenful, including permissions to modify the database. The Admin can modify user accounts, Journals, and Zenful features (animations and music). Zenful takes user privacy very seriously, and The Admin only has access to data in order to ensure a smooth web application performance for all Zenful users.

Home Page

The Home Page does not pertain to any entity. The Home Page is accessible to all General Users who visit the Zenful web application. The Home Page serves the purpose to provide General Users with essential information: 1) What is Zenful? Zenful is your new source of relaxation, supporting not only productivity, but also peace. How so, you ask? Zenful will provide its users with a Journal along with Features like music and animations for peace. 2) What do I need to do to start using Zenful? First, complete Registration to create a new account. Second, Login to

Zenful. Third, Access the Journal and Features (music and animations) by using the corresponding links.

Registration

Registration is the process during which a User entity is formed. Registration is the process that General Users need to complete in order to become Registered Users. In order to complete Registration, General Users will first need to click on the “Register” link at the top right corner of our Zenful web application. General Users will then need to fill out a registration form, providing their first name, last name, username, e-mail address, and password. The General User will also need to confirm their password, accept the Terms of Service and Privacy Policy, and click submit. If the username the General User provided is not already existing in our database, the e-mail address is valid, and the password matches the confirmed password, the General User will complete Registration and become a Registered User.

Login

Login is the process a User entity needs to complete in order to become logged in. Login is the process that Registered Users need to complete in order to access Zenful. In order to Login, Registered Users will first need to click on the “Login” link at the top right corner of our Zenful web application. During Login, Registered Users need to provide their username along with their password by filling in the Login Form and clicking submit. If the username and password match exist in the database, the Registered User will be logged in. If the Registered User does not remember their password, they will be provided with a “Forgot Password” link in order to retrieve their password.

Journal

The Journal pertains to the “Journal” entity, with attributes: Date created(date), Title(varchar), and description(text). The Journal is only accessible once a Registered User has logged into Zenful. Upon clicking the Journal link on Zenful, a Registered User will be provided with a journal where they can write down anything they decide to. The Journal’s aim is to provide the Registered User with a quick opportunity during work to introspect, and note or work through their thoughts and feelings.

Relevant Data: document files (.pdf, .txt), image files (.jpg, .png, .jpeg, .gif).

Features

Zenful Features pertains to the “Customize” entity, with attributes: Music(text URL), Background(text URL), Name(varchar), and Animation(text URL). Zenful Features currently

include: animations and music. Similarly to the Journal, Zenful Features are only accessible once a Registered User has logged into Zenful. Upon clicking the Features link on Zenful, a Registered User will be provided with two sections: music, and animations. Under the music section, the Registered User will be provided with options for music to play. Music will be in the relaxing theme, namely: raindrops, lo-fi, and study/meditation sounds. Under the animations section, the Registered User will be provided with an on/off toggle for animations, along with options for animations. If the Registered User chooses to toggle animations on, they will see the animation play on a loop in the corner of their screen on the Journal section.

Relevant Data: music audio files (.mp3), animation video files (.mp4, .mov, .avi), animation image files (.jpg, .png, .jpeg, .gif).

Functional Requirements

Priority 1

Home Page

- 4.1. The system shall display step-by-step instructions to use Zenful.
- 4.2. The system shall display log-in and register options for the user.

General User

- 1.1. The system shall display the Home Page for all general users.
- 1.2. The system shall provide the option for all general users to register.

Registered User

- 2.1. The system shall provide the option for all registered users to login.
- 2.2. The system shall provide the registered user access to Zenful once they are logged

in.

Registration

- 5.1. The system shall record the user's first name.
- 5.2. The system shall record the user's last name.
- 5.3. The system shall record the user's email address.
- 5.4. The system shall record the user's username.
- 5.5. The system shall record the user's password.
- 5.13. The system shall allow the user to edit their registration information before submitting the registration form.
- 5.12. The system shall generate a unique user identification number for each registered user.
- 5.6. The system shall display whether the user's username is available.
- 5.7. The system shall display whether the user's email is available.
- 5.8. The system shall display whether the password matches the confirmed password.
- 5.9. The system shall display that the user needs to choose a different email if their email is unavailable.
- 5.10. The system shall display that the user needs to choose a different username if their username is unavailable.
- 5.11. The system shall display that the password and confirmed password fields must match in order to register.

Login

- 6.1. The system shall allow a registered user to login.
- 6.2. The system shall require a registered user's username to login.
- 6.3. The system shall require a registered user's password to login.
- 6.7. The system shall allow a registered user to logout.
- 6.4. The system shall allow the registered user to select "forgot password".
- 6.5. Forgot Password: The system shall allow the registered user to enter their email address in order to receive an email with instructions to reset their password.
- 6.8. The system shall allow a registered user to change their password.
- 6.9. The system shall allow a registered user to view and edit their account details.

Admin

- 3.3. The system shall allow the Admin to access and modify the database.
- 3.2. The system shall provide the Admin with all data access.
- 3.1. The system shall require the Admin to login before accessing Admin permissions.

Journal

- 7.6. The system shall allow a registered user to create a new private (accessible only to the registered user and no-one else) journal entry.
- 7.3. The system shall allow a registered user to edit their private journal entries.
- 7.1. The system shall record private journal entries.
- 7.2. The system shall display existing private journal entries for the registered user.
- 7.7. The system shall allow a registered user to delete a private journal entry.

Features

- 9.1. The system shall display an animation if animation is toggled on by a registered user.
- 9.2. The system shall allow a registered user to toggle their animation on or off.
- 9.3. The system shall allow a registered user to choose from available public animations.
- 9.5. The system shall allow a registered user to play public music through Zenful.
- 9.6. The system shall allow a registered user to pause music.

Priority 2**Login**

- 6.6. The system shall record the current signed-in registered user status.

Journal

- 7.4. The system shall allow a registered user to search for a private journal entry.
- 7.5. The system shall allow a user to select a private journal entry for editing.

Priority 3**Journal**

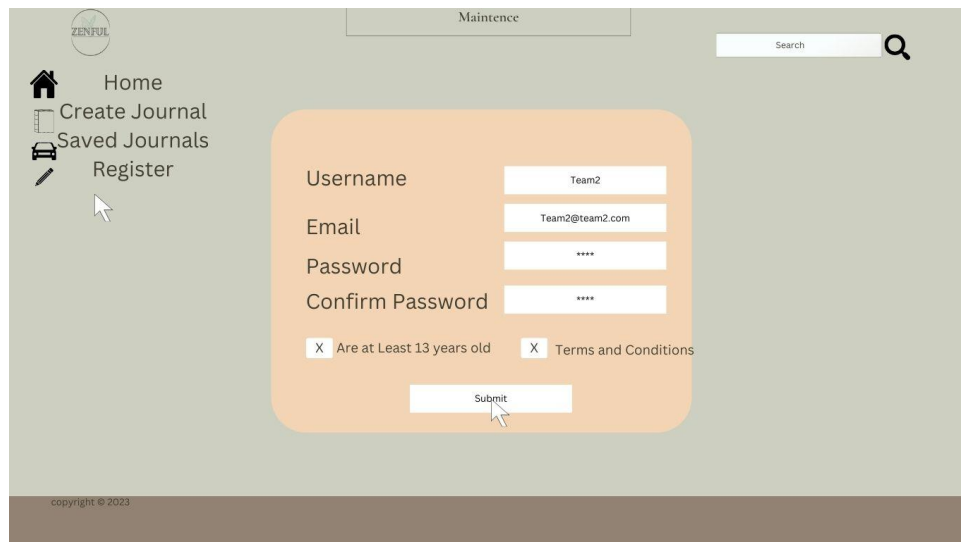
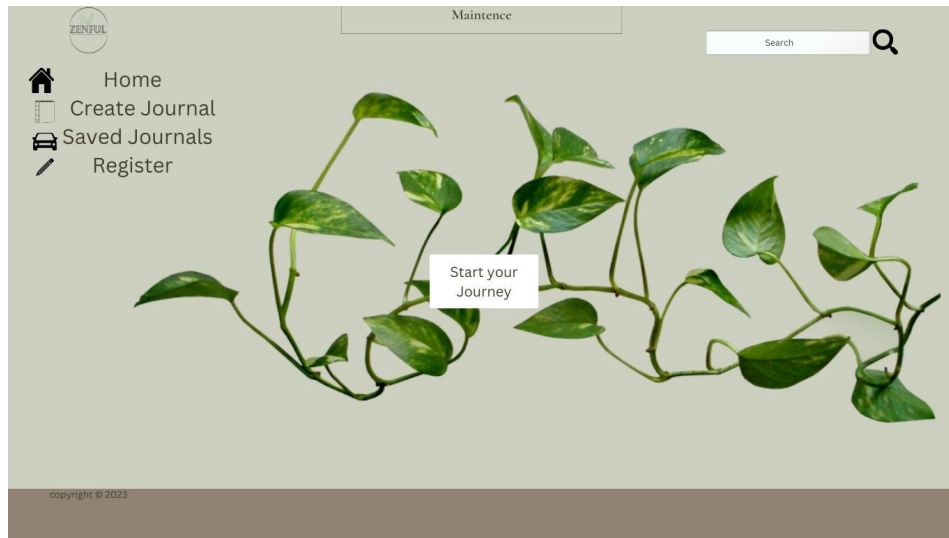
- 7.8. The system shall allow a registered user to add a 4 digit passcode to a private journal entry for additional security.

Features

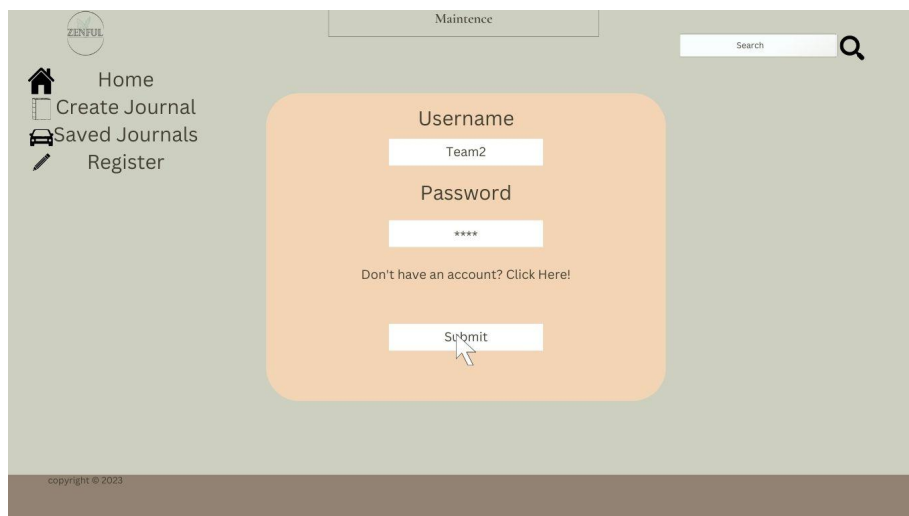
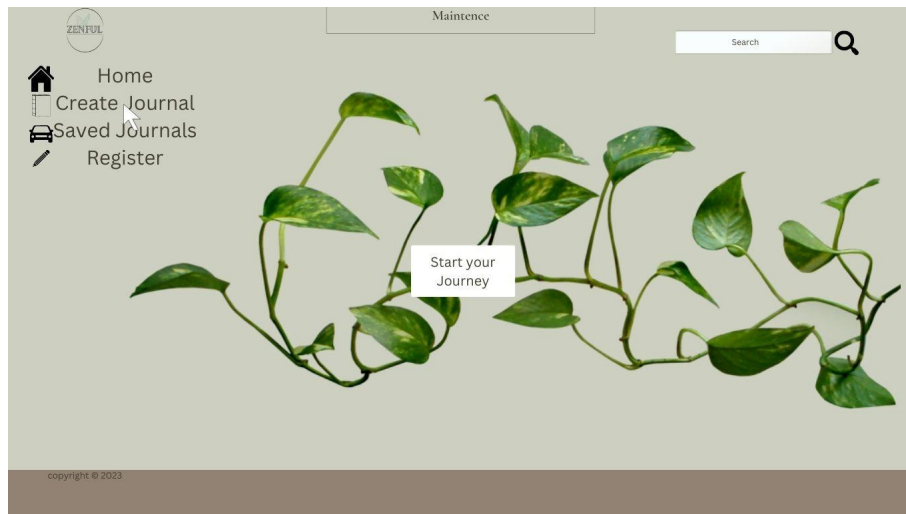
- 9.4. The system shall allow a registered user to upload their own private animations.
- 9.8. The system shall allow a registered user to upload their own private music.
- 9.9. The system shall record uploaded music.

Wireframes Mockups

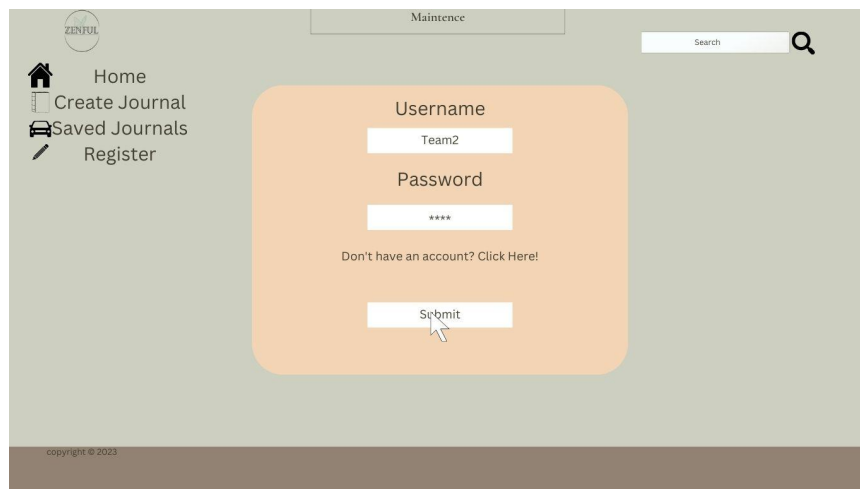
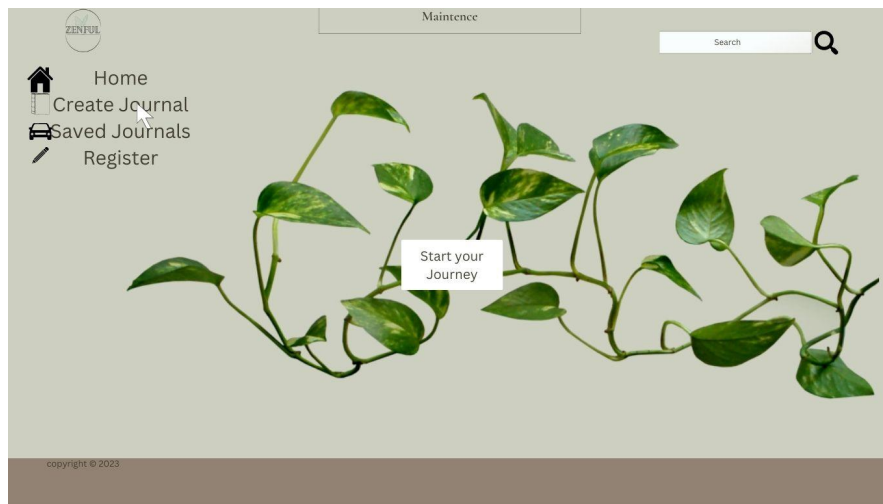
3.1 Registration



3.2 Log-in

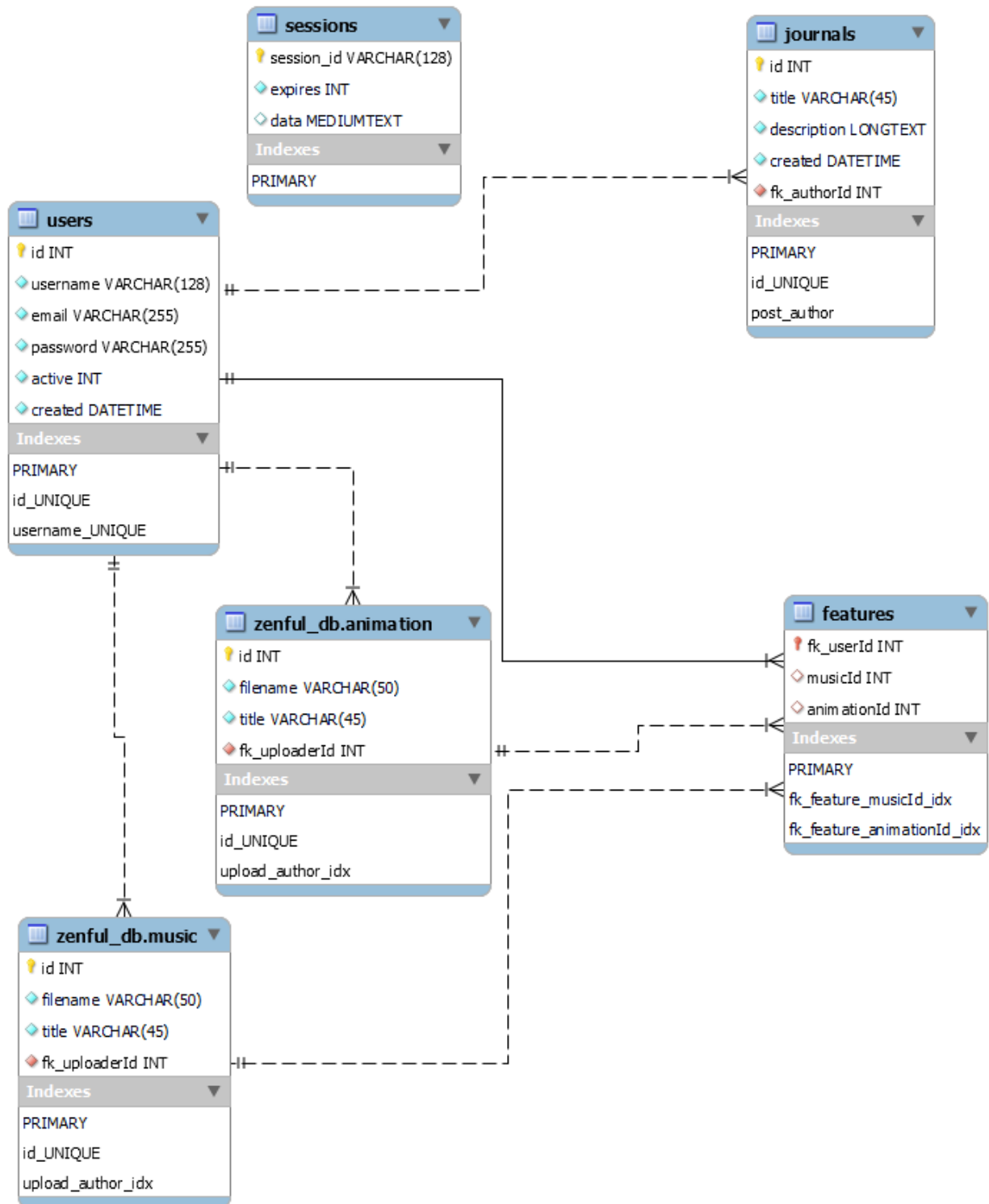


3.3 Starting a Journal

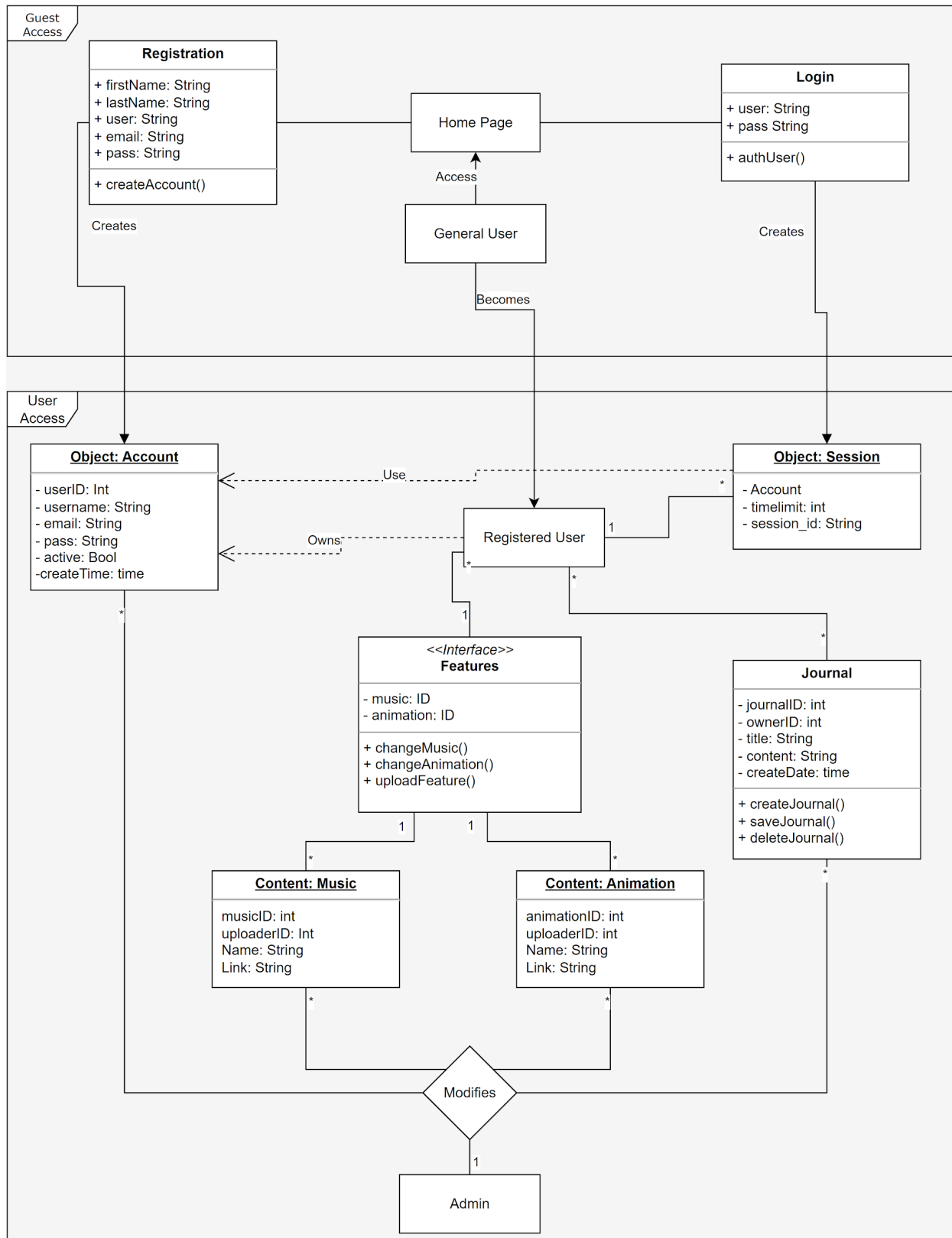




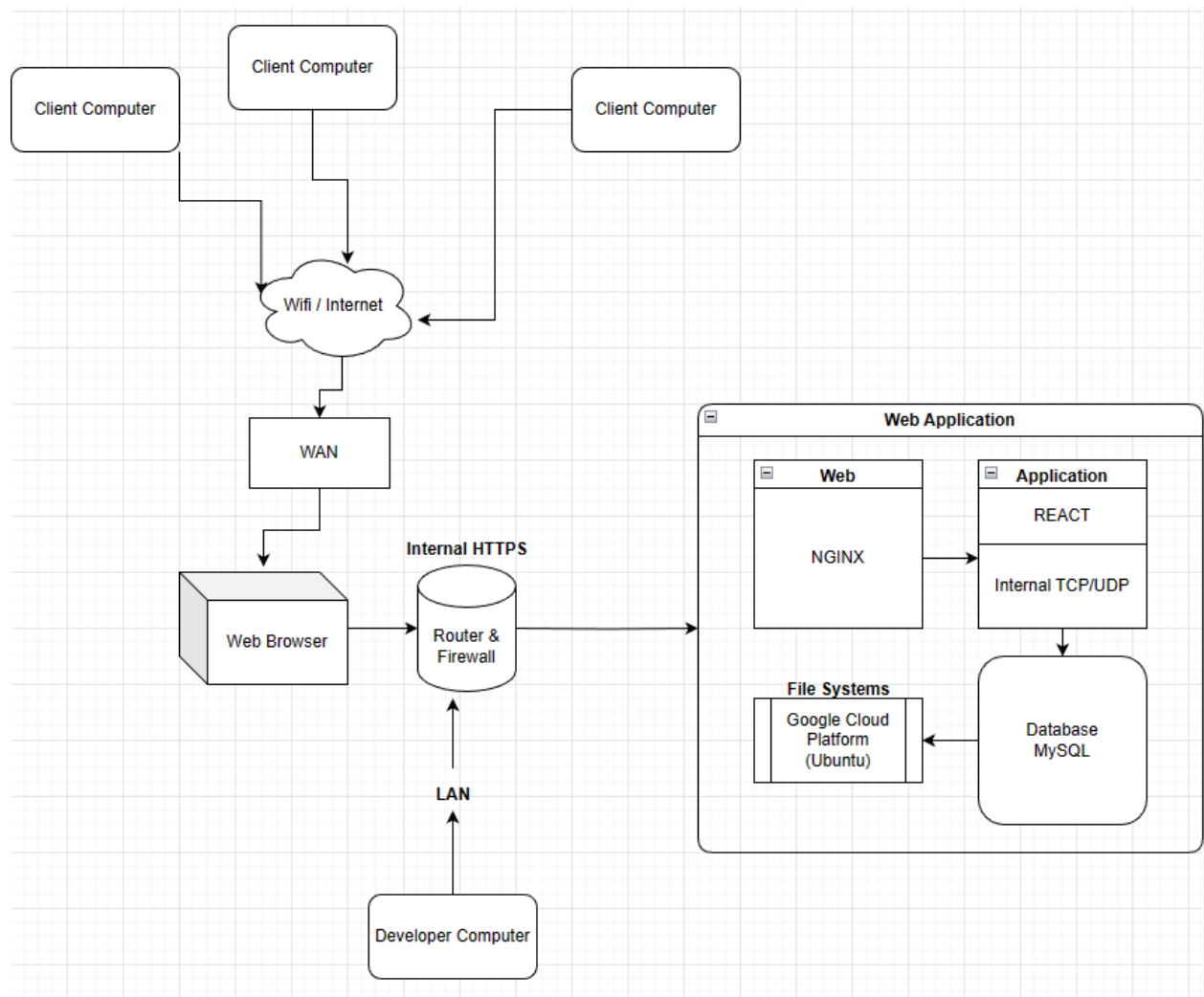
EER:



UML:



Deployment & Network Diagram:



List of Contributions

Name	Contribution	Score
Braden Dalit	-Database edits -Deployment -Bugs -Saved/create journals functionality -Login functionality	2.1
Kimon Monokandilos	-Home screen look -Create+save journal look -Login look -Data Definitions -Functional Requirements	2
Jada Campbell	-Home screen look -Create+save journal look -Wireframes	2
Lucas Soto	-Database edits -Bugs -View journal functionality -Login functionality	2
Edward Chen	-UML -EER -Some front end look	1.9