SW Engineering CSC648-848-01 Summer 2023
Zenful

Team 2 (Spider Computer Scientists)

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Milestone 3

07/24/23

History Table:

Milestone's Versions	Date
M3V2	08/01/23
M3V1	07/24/23
M2V2	07/24/23
M2V1	06/28/23
M1V2	06/26/23
M1V1	06/12/23

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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

<u>Priority 1</u>

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

General User
    1.1.   General users shall be able to view the home page.
    1.2.   General users shall be able to register.

Registered User
    2.1.   Registered users shall be able to login.
    2.2.   Registered users shall have access to Zenful once they are logged in.

Registration
    5.1.   Users shall need to provide their first name during registration.
    5.2.   Users shall need to provide their last name during registration.
    5.3.   Users shall need to provide their email address during registration.
    5.4.   Users shall need to provide their username during registration.
    5.5.   Users shall need to provide their password during registration.
    5.13.   Users shall be able to edit their registration details before submitting the registration form.
    5.12.   Each registered user shall have a unique user identification number once registered.
    5.6.   Users shall be able to see whether their chosen username is available during registration.
    5.7.   Users shall be able to see whether their chosen email is available during registration.
    5.8.   Users shall be able to see whether their confirmed password matches their password.
    5.9.   Users shall need to choose a different email address if the one they provide is unavailable.
    5.10.   Users shall need to choose a different username if the one they provide is unavailable.
    5.11.   Users shall be able to see that their password and confirm password fields must match in order to complete registration.

Login
    6.1.   Registered users shall be able to login.
    6.2.   Registered users shall need to provide their username to login.
    6.3.   Registered users shall need to provide their password to login.
    6.7.   Registered users shall have the option to logout.
    6.4.   Registered users shall be able to select "forgot password" if needed.
    6.5.   Forgot Password: Registered users shall need to enter their email address in order to receive an email with instructions to reset their password.
    6.8.   Registered users shall be able to change their password.

6.9.	Registered users shall be able to view and edit their account details upon logging in.

Admin
3.3.	The admin shall be able to access and modify the database.
3.2.	The admin shall be provided with full data access.
3.1.	The admin shall need to login before accessing admin permissions.
Journal
7.6.	Registered users shall be able to create a new private (accessible only to the registered user and no-one else) journal entry.
7.3.	Registered users shall be able to edit their private journal entries.
7.1.	Registered users shall have their private journal entries saved in Zenful for the user's individual viewing.
7.2.	Registered users shall be able to see all of their existing private journal entries.
7.7.	Registered users shall be able to delete a private journal entry.
Features
9.1.	An animation shall be displayed if the animation setting is toggled on by a registered user.
9.2.	Registered users shall be able to toggle their animation on and off.
9.3.	Registered users shall be able to choose from available public animations.
9.5.	Registered users shall be able to play public music through Zenful.
9.6.	Registered users shall be able to pause currently playing music.

Priority 2

Login
6.6.	Registered users shall have a signed-in user status.
Journal
7.4.	Registered users shall be able to search for a private journal entry.
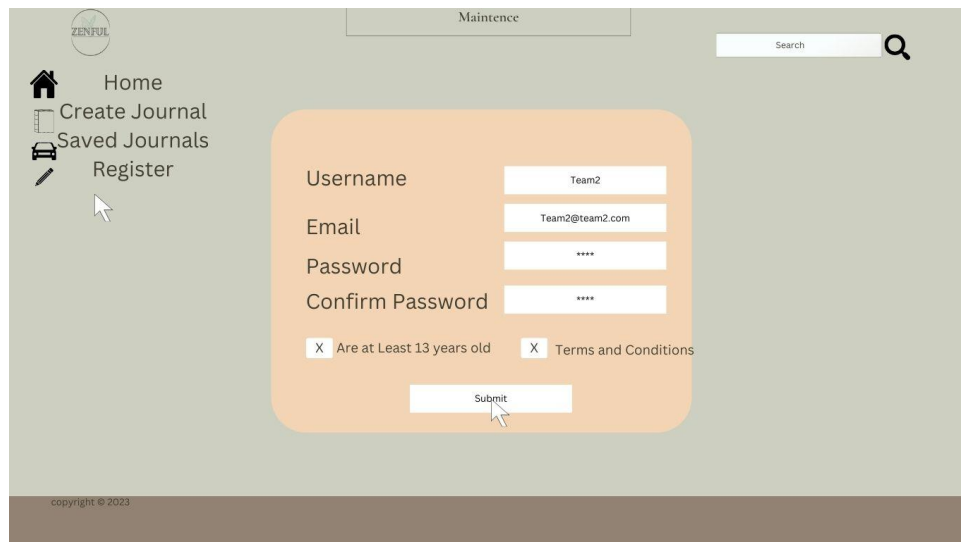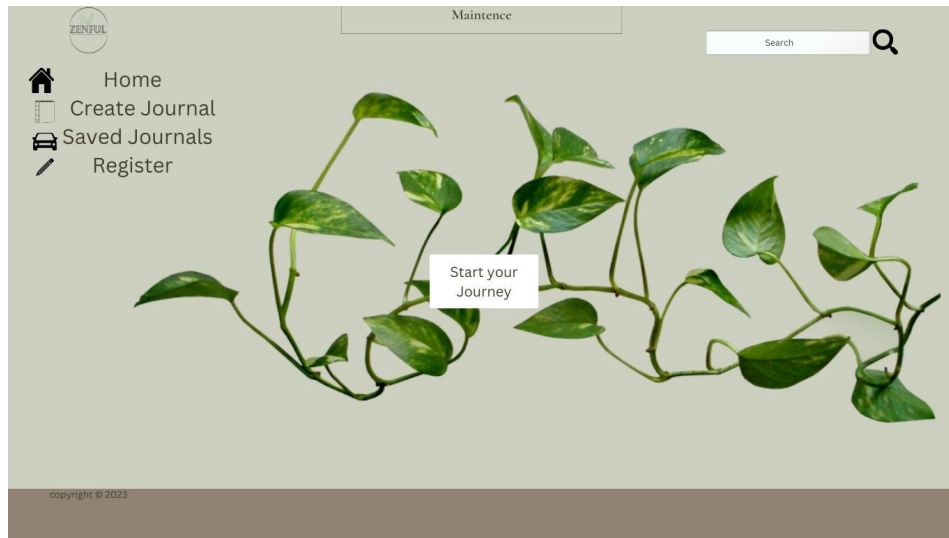7.5.	Registered users shall be able to select a private journal entry for editing.

Priority 3

Journal
7.8.	Registered users shall be able to add a 4 digit passcode to their private journal entries for additional security.
Features
9.4.	Registered users shall be able to upload their own private animations.
9.8.	Registered users shall be able to upload their own private music.
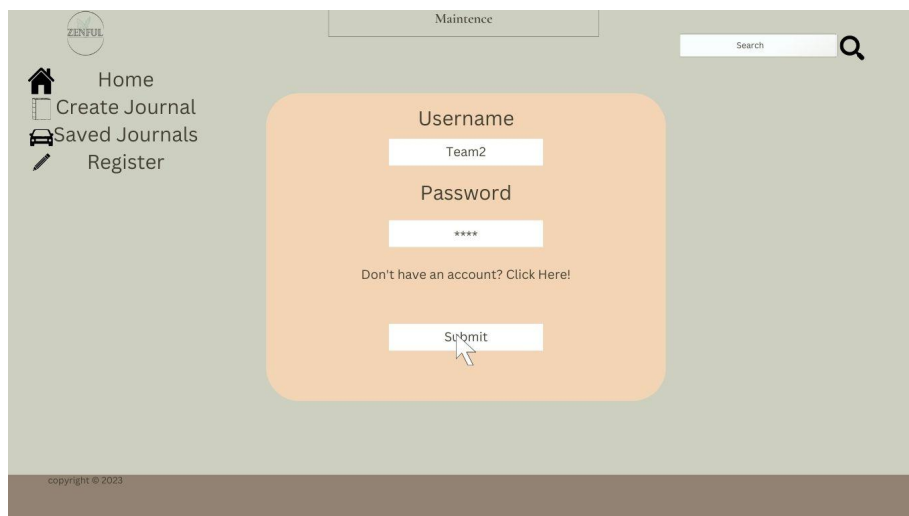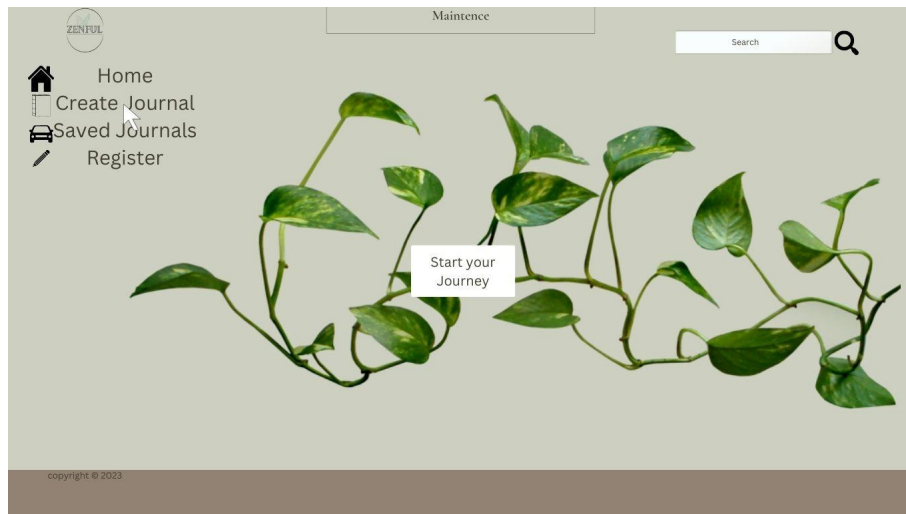9.9.	Registered users shall have their uploaded private music saved for their use only.
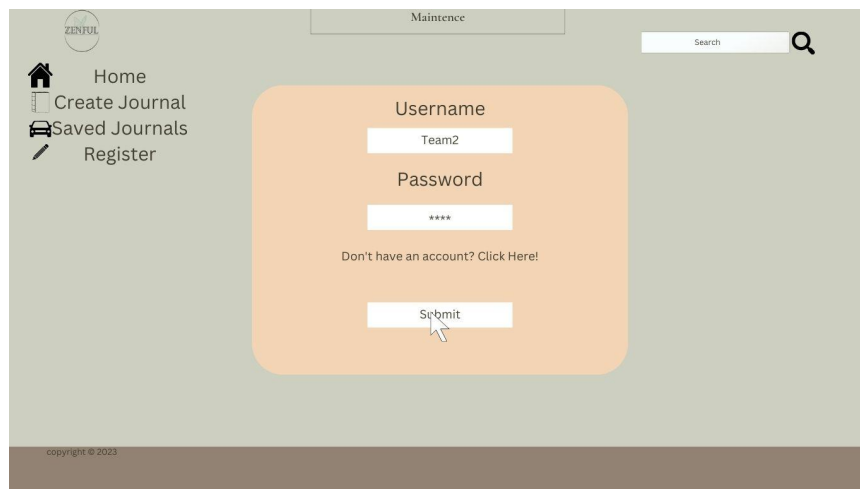
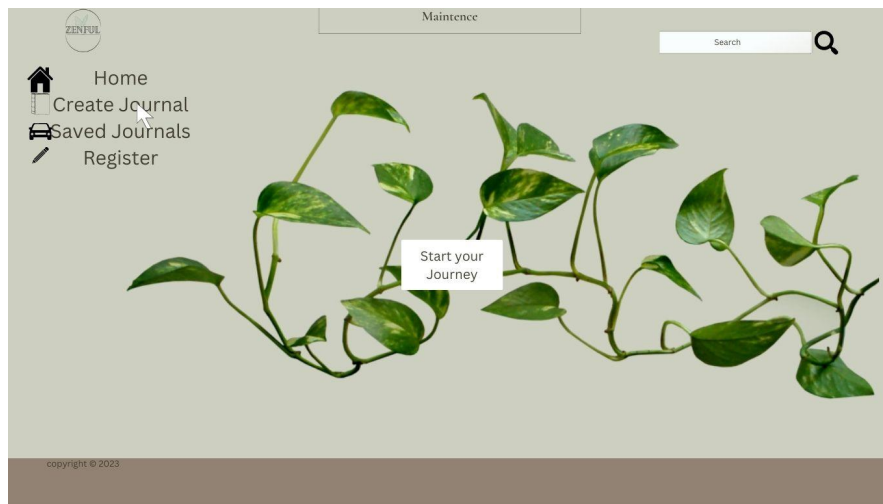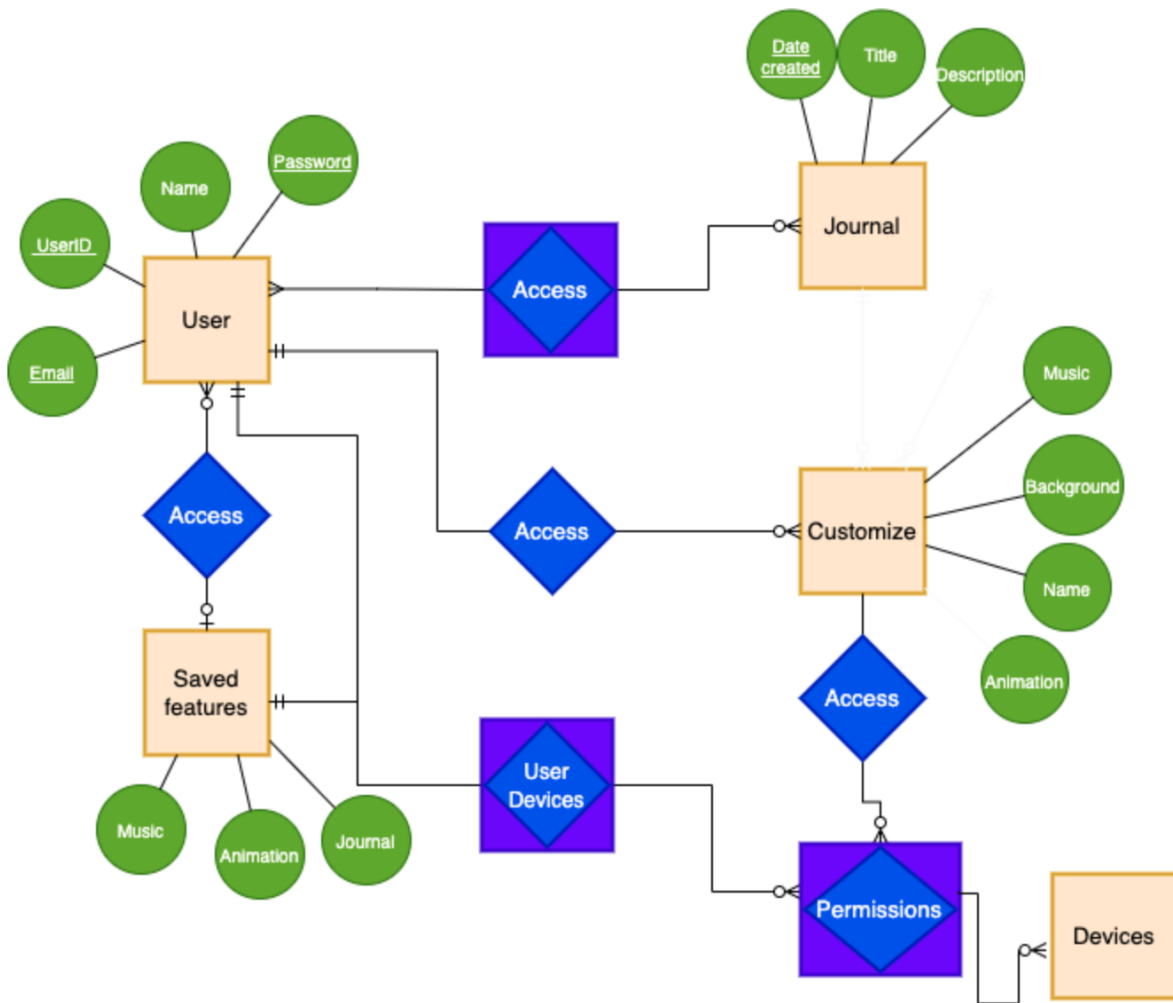# Wireframes Mockups
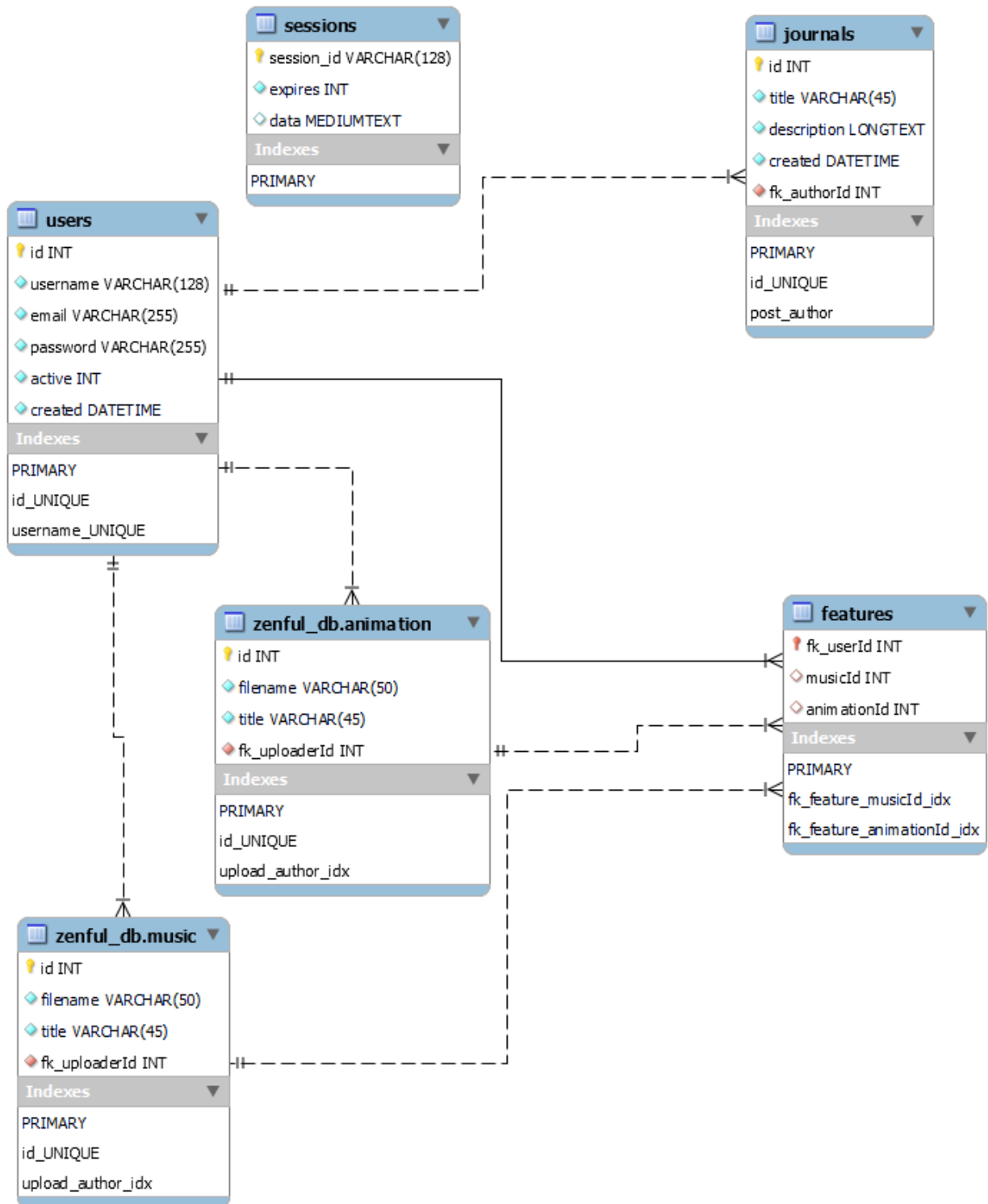
3.1 Registration

3.2 Log-in

3.3 Starting a Journal

Maintence

Search

ZENFUL

Home
Create Journal
Saved Journals
Register

Title
Journal 1

Entry
Today was great. I went to the zoo.

Save

High Level Database Architecture & Organization

ERD:

EER:

UML:
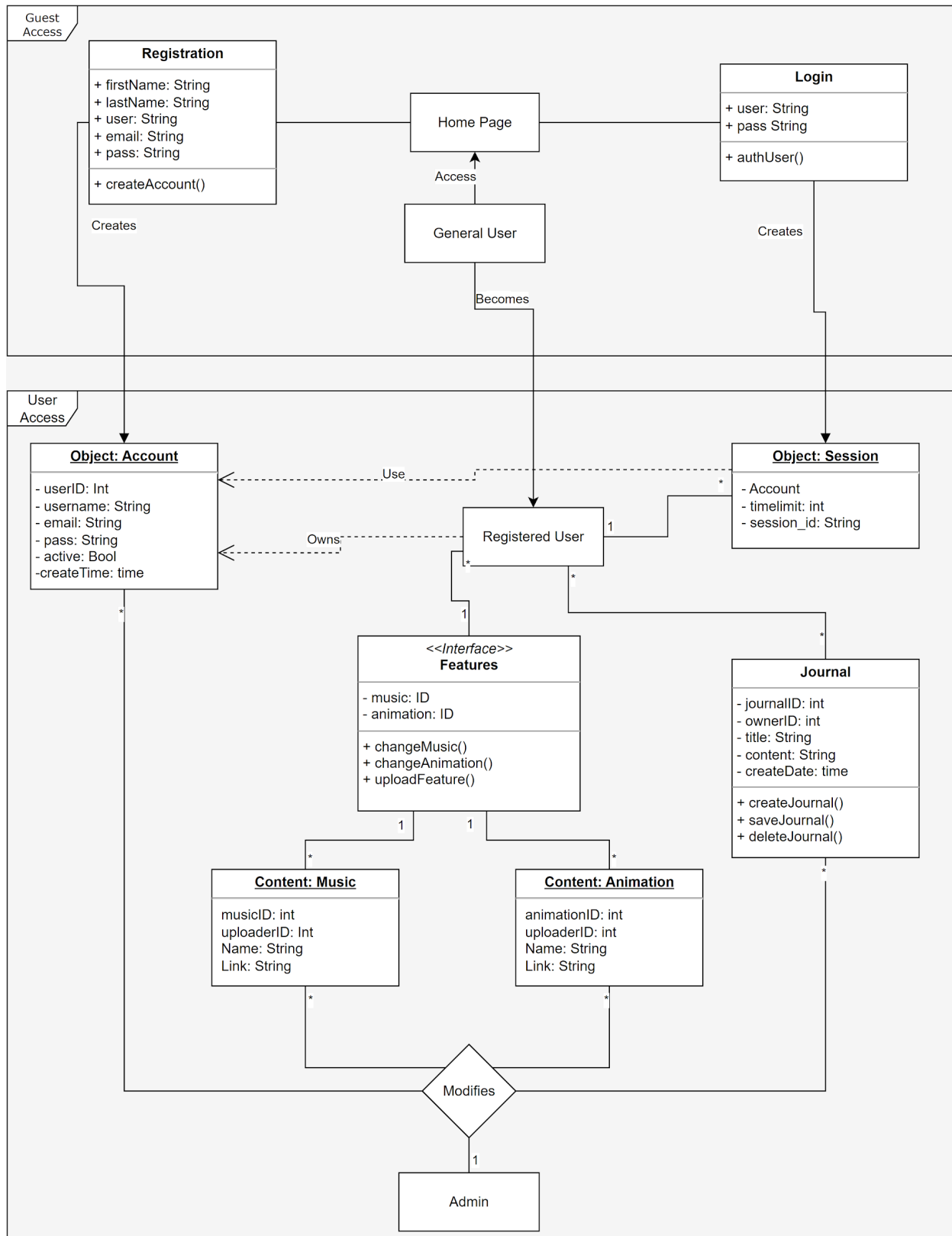
Deployment & Network Diagram:
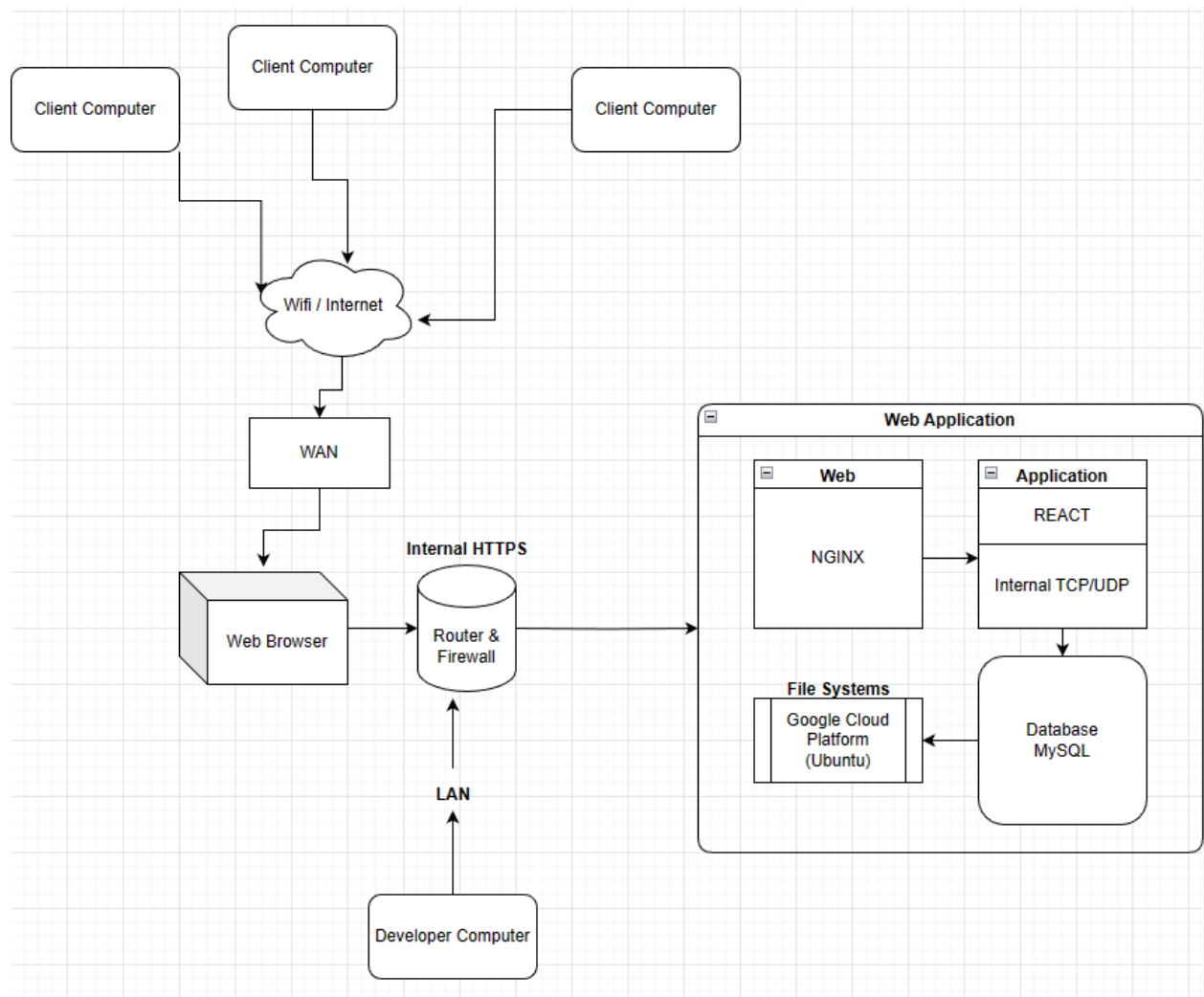
List of Contributions

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