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Music Therapy

Mental Health Application
using the Gift of Music

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CSC 431 | Intro to Software Engineering

Review of Project

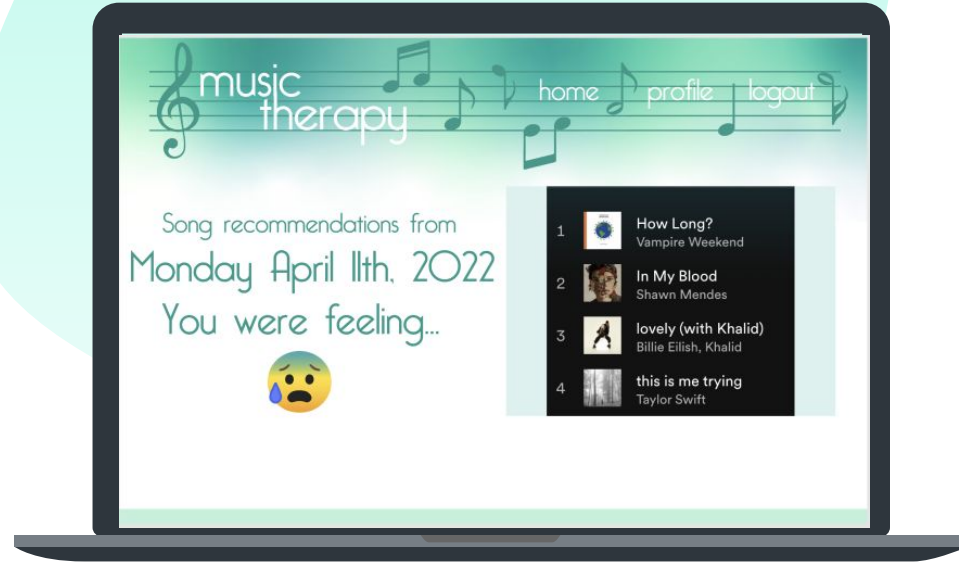
...ou're feeling anxious...



breathin
Ariana Grande

Project Review

Music Therapy is a new way of bettering your mental health with music. After logging into your music streaming service account, users can use our website as an immediate mood booster. By selecting what emoji best fits their current mood, the website will generate a song that will better their mood.



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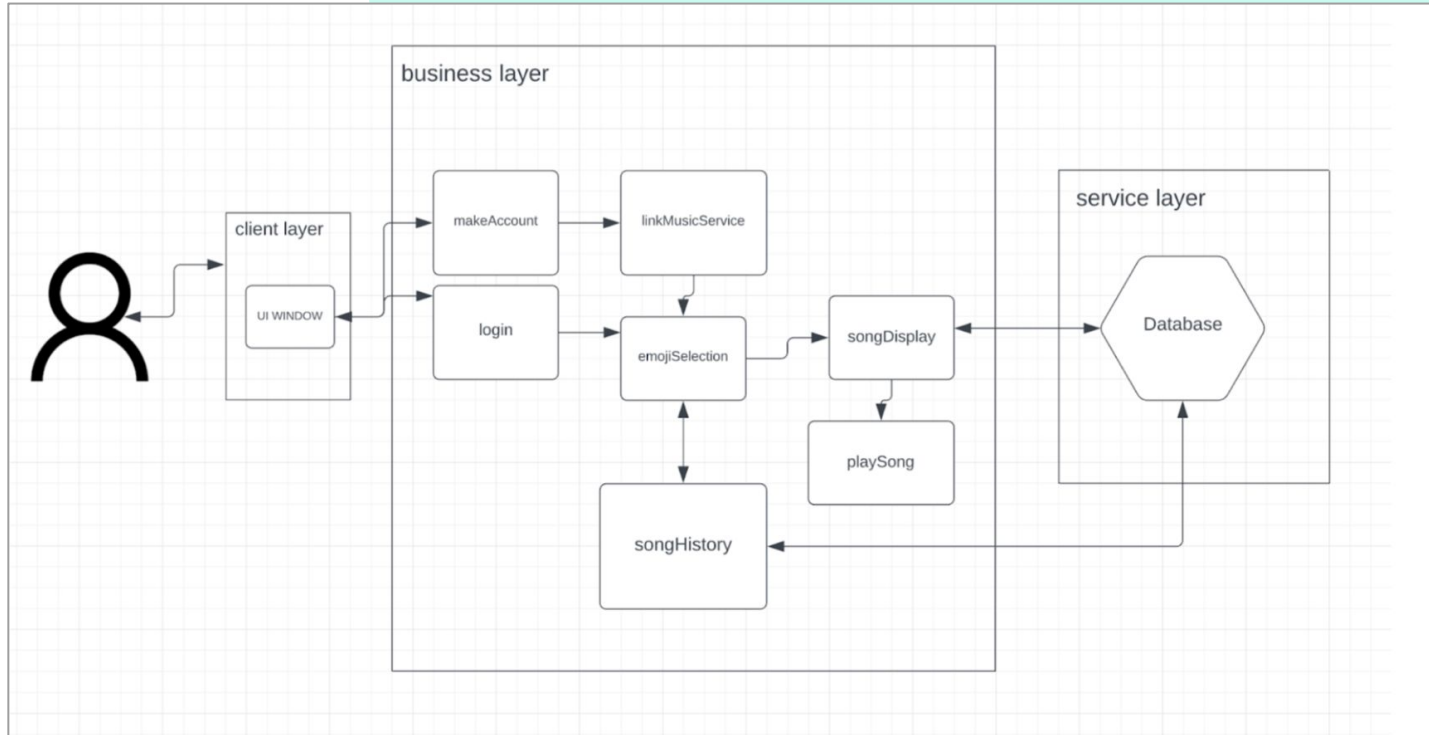
System Analysis

System Overview

- Client server connects the user to the network
- Business layer gives the website logic which includes
 - Linking your music streaming service
 - Emoji Selection
 - Saving song history
- Service layer filters through linked streaming service to create a database that stores the songs



System Diagram



Actors Identification

1. Users

- New members (Human Users)
- Registered members (Human Users)
- Web Developer (Human Users)

2. Database Administrator(ExternalSystem)

3. Time(SystemClock)

Architectural Style

1. User/client layer: User selects the emoji based on their emotion ☆
2. Business layer: Includes the logic for song recommendations.
3. Service layer: Stores data (song recommendation history) and authenticates through third party applications (Spotify and Apple Music).

Design Patterns

1. Factory Method

- Both the new user and registered user will inherit from a parent which will initialize classes for both users
- The subclasses that differentiate the new users and the registered users will override the specific initializations to make the two users different

2. Adapter

- The adapter design would serve to allow communication between the business layer and the service layer in our three-tier architecture style.

Frameworks

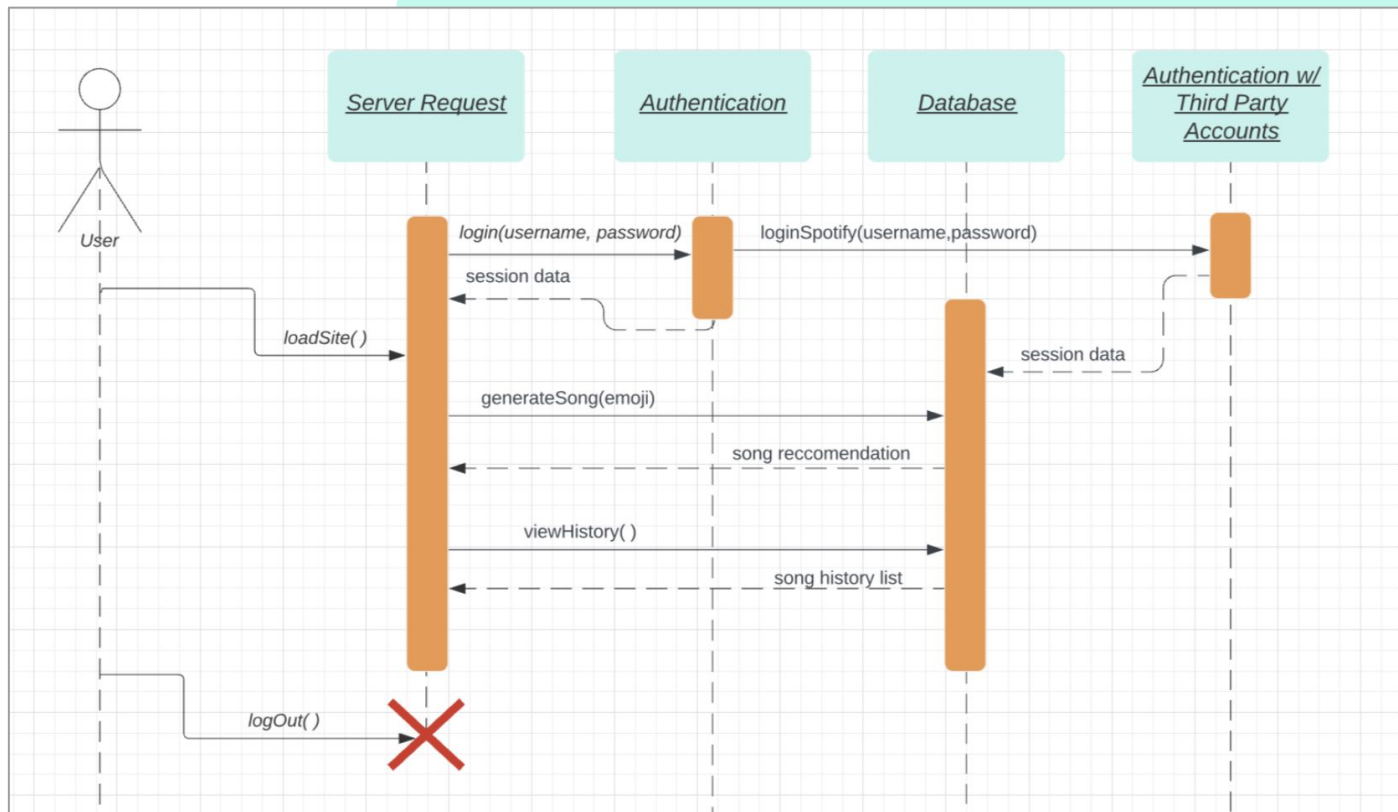
- Replit: UI Framework
 - HTML/CSS/JS
 - HTML for structure
 - CSS for style and design
 - JavaScript for functionality
 - Easily accessible cloud-based IDE
- Firebase/other backend server
 - Database storage



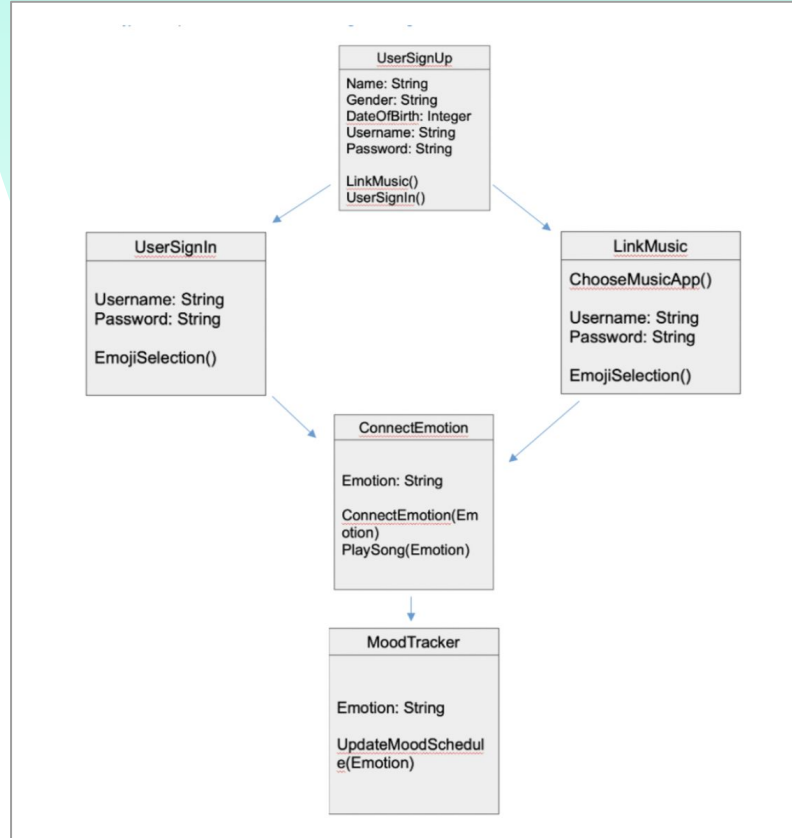


Functional Design

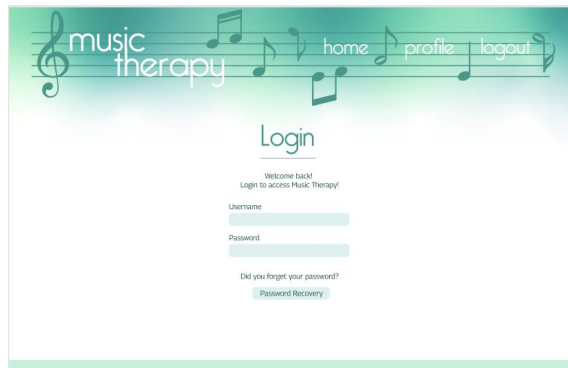
Sequence Diagram



Sequence Diagram



Project Mockup



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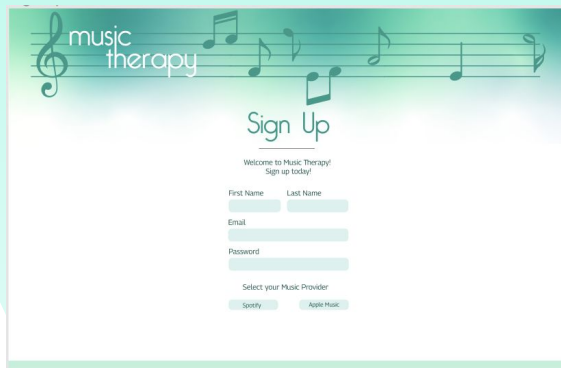
Login

Welcome back!
Login to access Music Therapy!

Username

Password

Did you forget your password?
[Password Recovery](#)



music therapy home profile logout

Sign Up

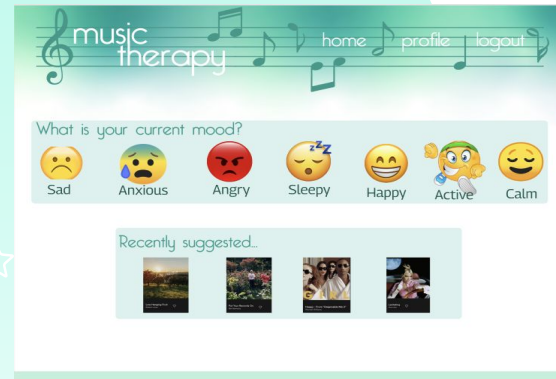
Welcome to Music Therapy!
Sign up today!

First Name Last Name

Email

Password

Select your Music Provider







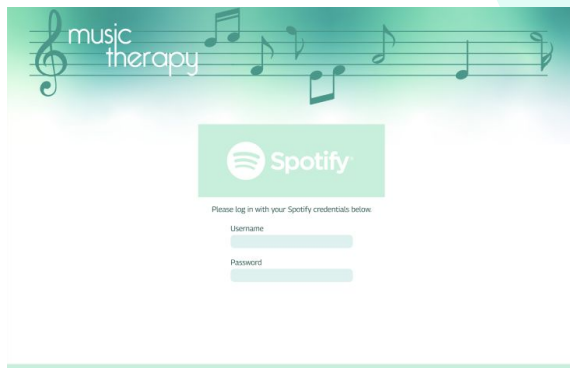
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What is your current mood?

☐ Sad ☐ Anxious ☐ Angry ☐ Sleepy ☐ Happy ☐ Active ☐ Calm

Recently suggested...



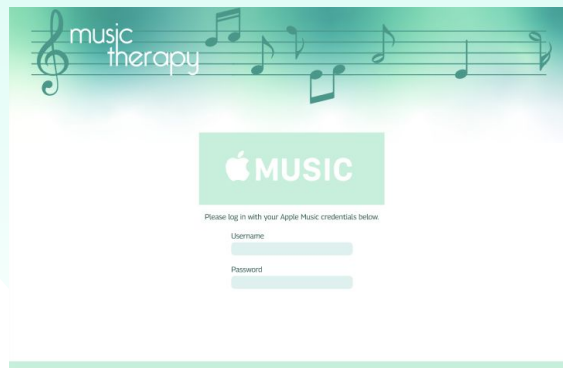
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Spotify

Please log in with your Spotify credentials below.

Username

Password



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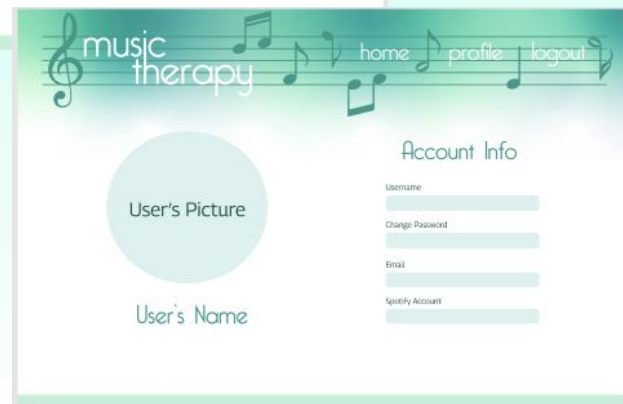
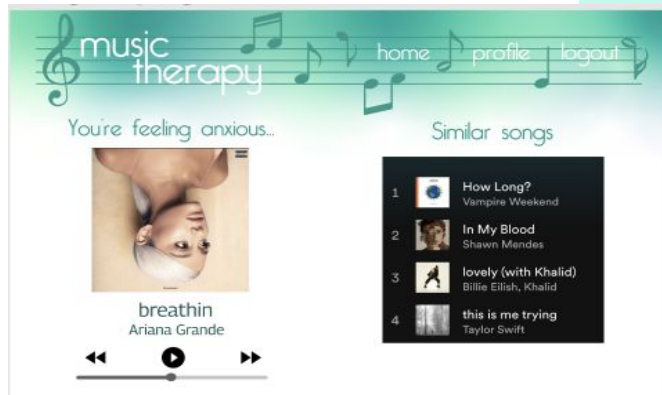
Apple MUSIC

Please log in with your Apple Music credentials below.

Username

Password

Project Mockup



Project Planning & Github Link

Dashboard -
<https://github.com/hibaf786/CSC431->

