CSC 431

Music Therapy

Software Requirements Specification (SRS)

Team number 15

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Version History

Version	Date	Author(s)	Change Comments
1.0.0	2/17/21	Hiba Farhan, Ayesha Bakshi, Cameron VanDyke	The first draft of the website was formed
2.0.0	4/24/22	Hiba Farhan, Ayesha Bakshi, Cameron VanDyke	Fixed our UML diagram, along with constraints

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1. System Requirements

1.1 Functional Requirements

1.1.1 User Sign-up

Title	User Sign-Up
Description	The user will be asked to create an account by providing their email and a password
Priority	1
Precondition(s)	The user needs to open the website
Basic Flow	1. The user will open the website 2. They will click on the 'Create Account' link 3. They can then do one of two things a. They can either fill out a form to create an account b. Or they can use Google or Apple to create an account
Postconditions(s)	Once the user has created their account, they will proceed to the login page
Use Case Diagram	3.1.1

1.1.2 User Login

Title	User Login
Description	The user will be asked to log-in to their account
Priority	1
Precondition(s)	The user needs to have an account made and will be taken to login page
Basic Flow	1. If they are not a first-time user, they will directly go to the login page 2. They will enter their login details, and then be led to the home page
Postconditions(s)	They are taken to the home page that consists of all the emojis
Use Case Diagram	3.1.1

1.1.3 Emoji Selection (homepage)

Title	Emoji Selection
Description	The home page will be consisted of emojis that a user can click on to describe how they're feeling.

Priority	1
Precondition(s)	After logging in, the center of the page will display the emojis.
Basic Flow	1. The user will log in and be taken to the homepage 2. The user will see a bunch of emojis on the homepage 3. They will select the emoji that best describes how they are feeling 4. Then the appropriate song will play.
Postconditions(s)	Once the user has selected an emoji, according to that emoji, a song will play
Use Case Diagram	3.1.1

1.1.4 Mood Tracker (homepage)

Title	Mood Tracker
Description	A section of the home page will track the user's emotions throughout the week along with the song that the website selected for an emotion.
Priority	1
Precondition(s)	After logging in, the user can we view the tracker below the emoji selection.
Basic Flow	1. The user logs in 2. They click on the tab that's tracking their moods 3. Then a display of the selected emojis of the week will appear
Postconditions(s)	Once the user has selected an emoji, according to that emoji, a song will play
Use Case Diagram	3.1.1

1.1.5 Past Recommendations (home page)

Title	Past Recommendations
Description	The user has the option to view past songs that the website chose to play for them.
Priority	2
Precondition(s)	The user needs to have used the website before.
Basic Flow	1. The user logs in 2. Clicks on the past music tab 3. Display of past recommendations the website gave will appear
Postconditions(s)	A list of songs will appear if the user has used the website multiple times.
Use Case Diagram	3.1.1

1.2 Non-Functional Requirements

1.2.1 Site Loading

Title	Load to the site
Description	When logging onto the site, the user should be able to do so within 5 seconds.
Priority	4
Applicable FR(s)	1.1

1.2.2 User Safety

Title	User Safety
Description	User's login information will remain secure. The site will also not breach the music streaming service's information.
Priority	1
Applicable FR(s)	1.1.1 and 1.1.2

1.2.3 Mood Tracker Storage

Title	Mood Tracker Storage
Description	There should be support from the database to be able to store user data in terms of user moods
Priority	1
Applicable FR(s)	1.1.3

1.2.4 Encryption

Title	Encryption
Description	Messages should be able to be encrypted by the user
Priority	1
Applicable FR(s)	1.1.3

2. System Constraints

2.1 Tool Constraints

2.1.1 Website Framework Constraint

Title	Website Framework Constraint
Description	Since our website will be made with HTML, CSS, and JavaScript, we plan on implementing the React Framework to help build interactivity for our site.
Priority	Mandatory: 0

2.2 Language Constraints

2.2.1 Replit Framework

Title	Website Framework
Description	The HTML/CSS/JavaScript code will be made on Replit. The backend elements will be compiled as HTML/JavaScript. The frontend elements will be compiled as CSS.
Priority	0

2.3 Platform Constraints

2.3.1 Website Platform

Title	Website Service Platform
Description	HTML/CSS/JavaScript would allow for the website to be presented on any browser.
Priority	Mandatory: 0

2.4 Hardware Constraints

2.4.1 Laptop/Desktop Requirement

Title	Required Laptop/desktop
Description	Since this is a website application, a laptop/desktop readily available.
Priority	Mandatory: 0

2.5 Network Constraints

2.5.1 Connection Constraints

Title	Connection Constraints
Description	The site must always be connected to a reliable source of internet connection to successfully run.
Priority	Mandatory: 1

2.6 Budget & Schedule Constraints

2.6.1 Budget Constraints

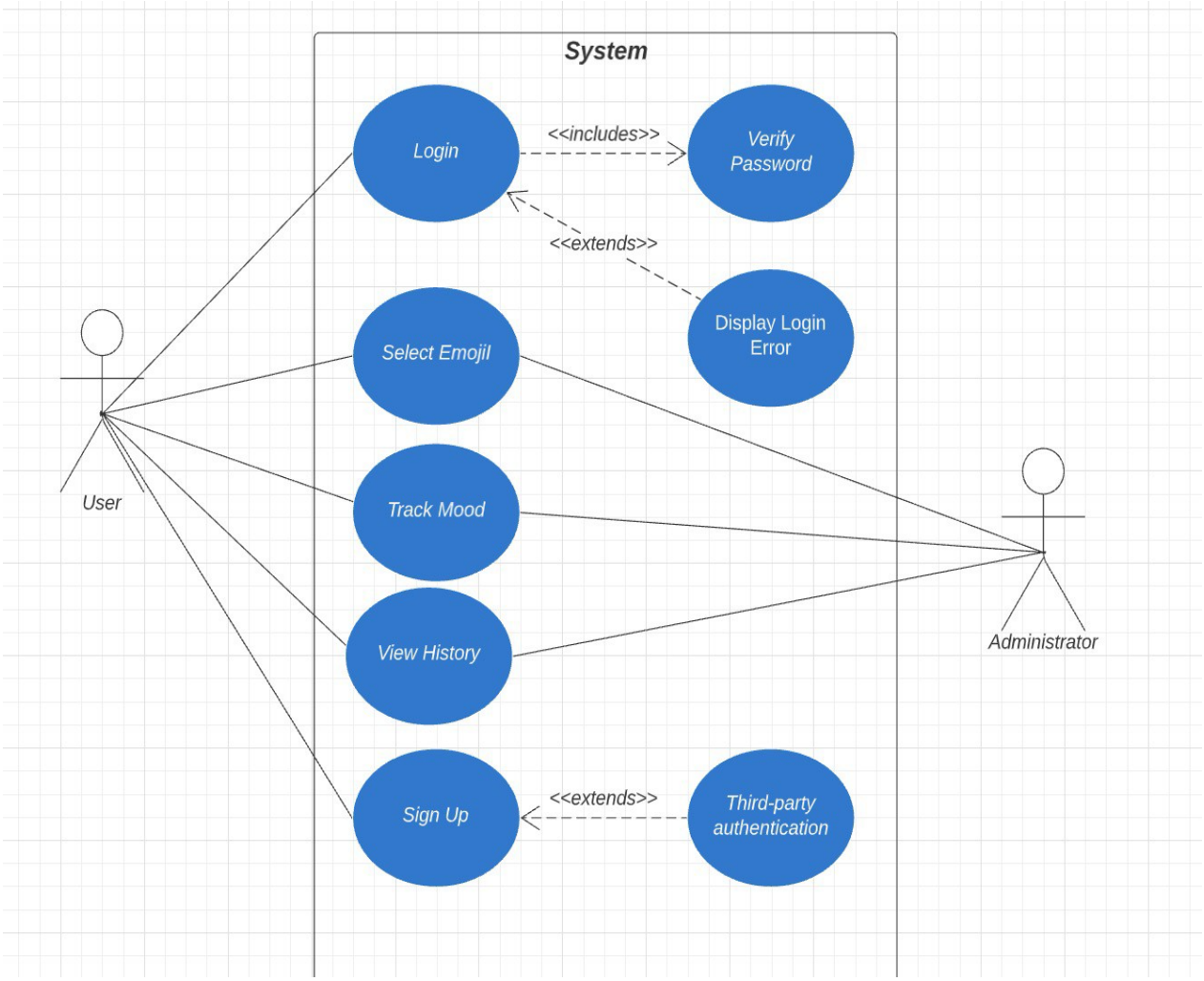
Title	Budget Constraints
Description	There is no budget for this project.
Priority	Lowest: 5

2.6.2 Schedule Constraints

Title	Schedule Constraints
Description	This project must be completed by the end of the Spring 2022 semester.
Priority	Highest: 0

3. Requirements Modeling

3.1.1 User and System



4. Evolutionary Requirements

4.1 Functional Requirements

4.1.1 Link to music streaming services

Title	Link to music streaming services
Description	When the user creates an account, they must use their login information from an existing music streaming platform (Spotify or Apple Music). Using the data from their current liked songs, artists, albums, and playlists, the song output will be formulated.
Priority	0 (Mandatory)
Precondition(s)	User must create a have an existing account with Apple Music or Spotify.
Postconditions(s)	User saves song recommendations to profile