Rhythmo

Requirements Specification

Team 11

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Product Vision

FOR passionate music enthusiasts

WHO want a platform that provides a personalized experience for sharing, discovering, and exploring music

THE Rhythmo system is a music-sharing, rating, and review platform

THAT allows registered users to create and share unique music profiles, participate in meaningful discussions, and connect to users with similar interests

UNLIKE film rating platform Letterboxd

OUR platform is focused on rating and discussing music

Feature

F1. Users of Rhythmo can create a user profile and add their favorite songs, albums, and artists to their profile.

Acceptance Criteria

GIVEN I am a registered user of Rhythmo who wants to create a Rhythmo profile,

WHEN I choose to create a Rhythmo profile,

THEN I can create a new Rhythmo user profile.

User Stories

US1-1. As a user I want to create a Rhythmo user profile, so that I can fully utilize the features of Rhythmo.

US1-2. As a registered user with a Rhythmo profile, I want to add my favorite songs, albums, and artists to my profile so that I can personalize my profile.

US1-3. As a registered user with a Rhythmo profile, I want to be able to edit my profile so that I can make changes to my favorites as I discover new music.

Use Cases for Feature 1 user stories

F1. Users of Rhythmo can create a user profile and add their favorite songs, albums, and artists to their profile.

Create a user profile
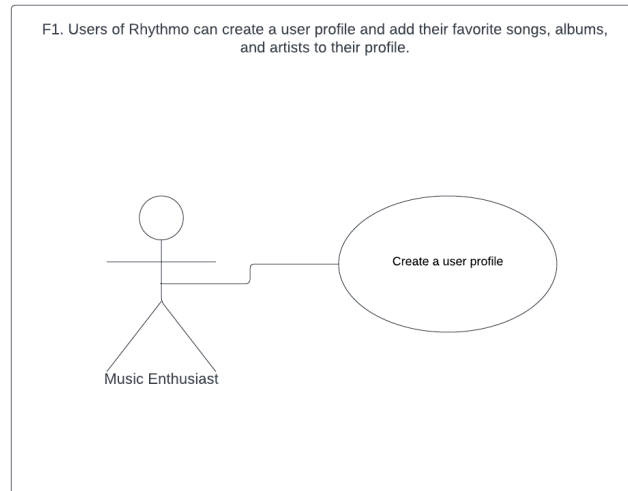
Music Enthusiast

Use case name: Create a user profile

Related Requirements: US1-1

Goal in context: A music enthusiast of Rhythmo can create a user profile to utilize all features of the system.

Preconditions:
1) Music enthusiast is on the Rhythmo system.
2) Music enthusiast wants to create a user profile.

Successful End Condition: Music enthusiast is able to create a user profile.

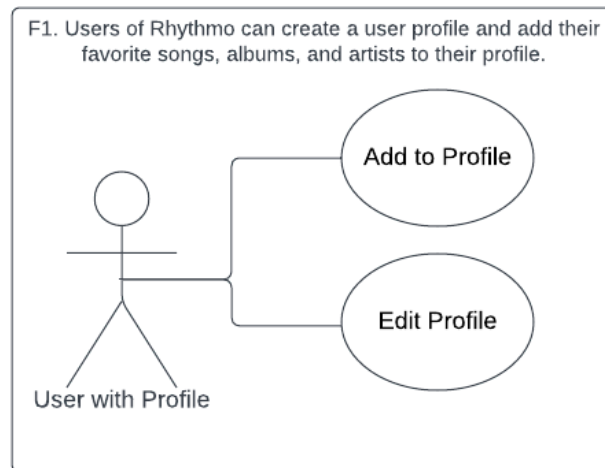**Failed End Condition:** Music enthusiast is not able to create a user profile.

Primary Actors: Music Enthusiast: user on the Rhythmo system who has not created a profile yet.

Secondary Actors: N/A

Trigger: Music enthusiast wants to create a Rhythmo profile so that they can utilize all features and functionality of the Rhythmo system.

Main Flow of Events:
1) Music enthusiast accesses the Rhythmo system
2) Music enthusiast decides to create a Rhythmo profile to use all features of Rhythmo system
3) Music enthusiast creates a Rhythmo profile

F1. Users of Rhythmo can create a user profile and add their favorite songs, albums, and artists to their profile.

Add to Profile

Edit Profile

User with Profile

Use case name: Add to profile

Related Requirements: US1-2.

Goal in context: A user with a Rhythmo profile can add songs, albums, or artists to their profile.

Preconditions:
1) A user must have a Rhythmo profile
2) User has songs, albums, or artists they want to add to their profile

Successful End Condition: User with a Rhythmo profile adds songs, albums, or artists to personalize their profile.

Failed End Condition: User with a Rhythmo profile are not able to add content to their profile.

Primary Actors: User with profile: a user who has successfully created a profile on Rhythmo system.

Secondary Actors: N/A

Trigger: User wants to add content to their Rhythmo profile.

Main Flow of Events:
1) User with Rhythmo profile selects songs, albums, or artists they want to add to their profile
2) User with Rhythmo profile adds content to their profile
3) Rhythmo system shows new content that was added to profile

Use case name: Edit Profile

Related Requirements: US1-3.

Goal in context: User with a Rhythmo Profile can edit content on their profile.

Preconditions:
1) User must have a Rhythmo profile created
2) User has content they would like to edit from their profile

Successful End Condition: User with a Rhythmo profile edits desired content from their profile

Failed End Condition: User with a Rhythmo profile is unable to edit content from their profile

Primary Actors: User with Profile: a user who has successfully created a profile on Rhythmo system.

Secondary Actors: N/A

Trigger: User wants to edit content on their Rhythmo profile.

Main Flow of Events:
1) User selects content they would like to edit from their profile
2) User with Rhythmo profile edits desired content from their profile
3) Rhythmo system removes/edits desired content from profile

Feature

F2. Rhythmo users with a Rhythmo profile can interact with other user profiles on Rhythmo.

Acceptance Criteria

GIVEN I am a registered user of Rhythmo with a Rhythmo profile,

WHEN I want to interact with other users on Rhythmo,

THEN I can follow, unfollow, and message other registered users on Rhythmo.

User Stories

US2-1. As a registered user with a Rhythmo profile, I want to be able to follow other users' profiles on Rhythmo so that I can keep up with other users with similar interests.

US2-2. As a registered user with a Rhythmo profile, I want to be able to unfollow other users' profiles on Rhythmo so that I only follow users with similar interests.

US2-3. As a registered user with a Rhythmo profile, I want to be able to message other users so that we can share our music interests

<u>**Use Cases for Feature 2 User Stories**</u>

F2. Rhythmo users with a Rhythmo profile can interact with other
user profiles on Rhythmo.

Follow Other
Users' Profile
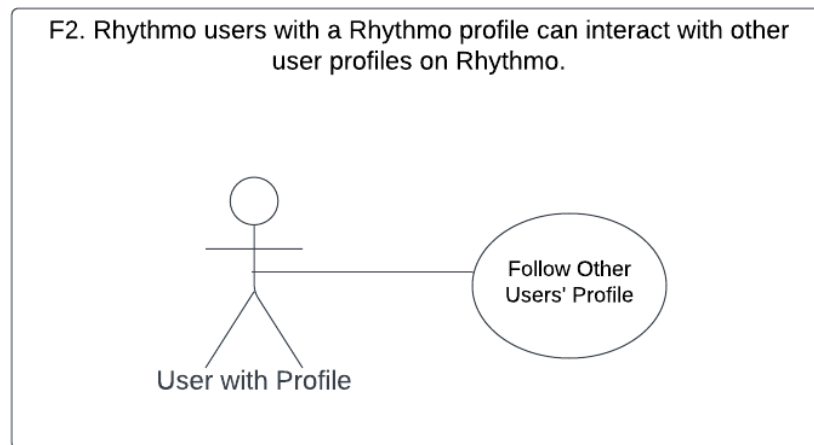
User with Profile

Use case name: Follow Other Users' Profile

Related requirements: US2-1

Goal in Context: A user with a Rhythmo profile can follow another users' profile.

Preconditions:
   1) Registered user has already created their Rhythmo profile.

Successful End Condition: User with a Rhythmo profile is able to follow the user they want to follow.

Failed End Condition: User with a Rhythmo profile is unable to follow the user they want to follow.
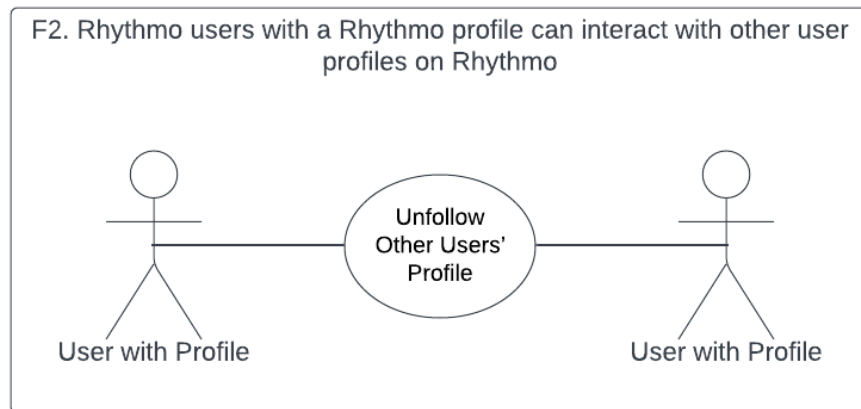
Primary Actors: User with profile: a user who has successfully created a profile on Rhythmo system.

Secondary Actors: N/A

Trigger: User with Rhythmo profile wants to follow another Rhythmo user.

Main Flow of Events:
   1) User with Rhythmo profile navigates to the profile of another user they wish to follow
   2) User with Rhythmo profile selects the follow option on the profile
   3) System adds user to the follower list to the user they have just followed
   4) System adds the user they just followed to the users' list of followed users
   5) System notifies followed user that they have a new follower

F2. Rhythmo users with a Rhythmo profile can interact with other user profiles on Rhythmo

Unfollow Other Users' Profile

User with Profile

User with Profile

Use case name: Unfollow Other Users' Profile

Related requirements: US2-2

Goal in Context: A user with a Rhythmo profile can unfollow another users' profile.

Preconditions:
1) Registered user has already created their Rhythmo profile
2) User with Rythmo profile has followed another user with Rythmo profile

Successful End Condition: User with a Rhythmo profile is able to unfollow the user they want to unfollow.

Failed End Condition: User with a Rhythmo profile is unable to unfollow the user they want to unfollow.

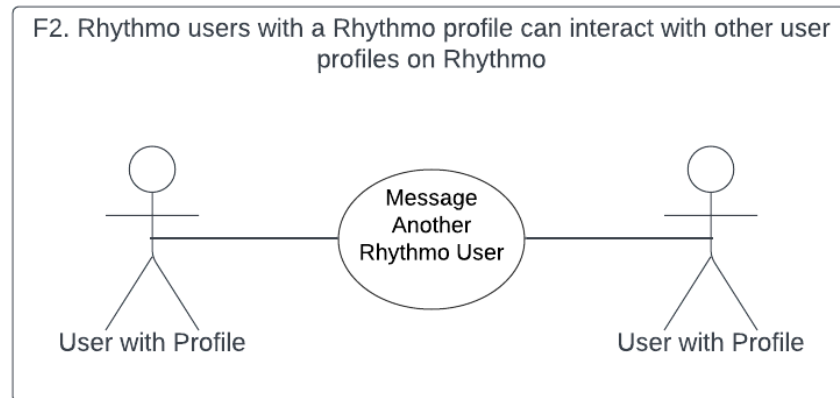**Primary Actors:** User with Profile: a user who has successfully created a Rhythmo profile

Secondary Actors:
1) User with Profile: a user who has successfully created a Rhythmo profile

Trigger: User with Rhythmo profile wants to unfollow another Rhythmo user.

Main Flow of Events:
1) User with Rhythmo profile navigates to the profile of another user they are following
2) User with Rhythmo profile selects the unfollow option on the profile
3) System removes user from the follower list of the user they have just unfollowed
4) System removes the unfollowed user from users' following list

F2. Rhythmo users with a Rhythmo profile can interact with other user profiles on Rhythmo

Message Another Rhythmo User

User with Profile   User with Profile

Use case name: Message Another Rythmo User

Related requirements: US2-3

Goal in Context: A user with a Rhythmo profile can message another registered Rhythmo user.

Preconditions:
   1) Registered user already has an account.

Successful End Condition: User with a Rhythmo profile is able to message the user they want to message.

Failed End Condition: User with a Rhythmo profile is unable to message the user they want to message.

Primary Actors: User with Profile: a user who has successfully created a Rhythmo profile.

Secondary Actors: N/A

Trigger: User with Rhythmo profile wants to message another Rhythmo user.

Main Flow of Events:
   1) User with a Rhythmo profile goes to the profile of the user they wish to message
   2) User with a Rhythmo profile chooses to message option
   3) System shows message area to user
   4) User writes their message into the message area
   5) System sends message to recipient
   6) System notifies recipient that they have a new message

Feature

F3. Users with a Rythmo profile can create, read, and respond to song, artist, and album reviews.

Acceptance Criteria

GIVEN I am a registered user on Rhythmo with a Rhythmo profile,

WHEN I am interested in other users' reviews or want to write a review,

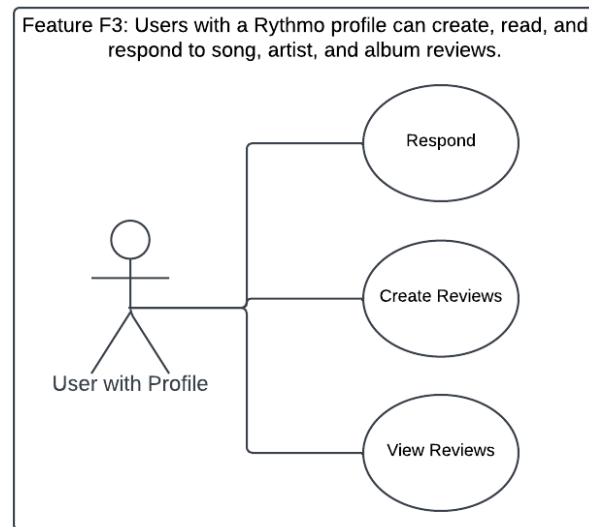THEN I am able to view other users' reviews or write my own review.

User Stories

US3-1. As a registered user with a Rhythmo profile, I want to create reviews so that I can express my opinion about songs, artists, or albums.

US3-2. As a registered user with a Rhythmo profile, I want to be able to view other users' reviews so that I can be better informed about the topic of the review.

US3-3. As a registered user with a Rhythmo profile, I want to be able to respond to other users' reviews so that we can discuss our opinions about the review subject

<u>**Use Cases for Feature 3 user stories**</u>

Feature F3: Users with a Rythmo profile can create, read, and respond to song, artist, and album reviews.

Respond

Create Reviews

View Reviews

User with Profile

Use Case Name: Create Reviews

Related Requirements: US3-1

Goal in Context: A user with a profile is able to create reviews on Rythmo

Preconditions:
1) User has the system open
2) User has created a profile
3) User has selected the music they want to review

Successful End Condition: A review was posted to Rythmo

Failed End Condition: A review wasn't posted to Rythmo

Primary Actors: User with Profile: person who has an account on Rythmo and has created a profile

Secondary Actor: N/A

Trigger: User with a Rhythmo profile wants to review music

Main Flow of Events:
1) User goes to an artist's song, artist's album or an artist's profile they want to review
2) User fills out review form
3) User submits the review
4) System recognizes review
5) System updates average rating
6) System makes review visible where the review was created and on user's profile

Use Case Name: View Reviews

Related Requirements: US3-2

Goal In Context: A user with a profile is able to view reviews posted by other profiles

Preconditions:
1) The user has the system open
2) User has created a profile

Successful End Condition: A user with a Rhythmo profile can see reviews posted by other users

Failed End Condition: A user with a Rhythmo profile cannot see reviews posted by other users

Primary Actors: User with Profile: person who has an account on Rythmo and has created a profile

Secondary Actors: N/A

Trigger: User with a Rhythmo profile wants to view a review made my another user

Main Flow of Events:
1) User goes to an artist's song, artist's album or an artist's profile they want to view
2) System shows all Rhythmo users' reviews for that song/album/artist

Use Case Name: Respond
Related Requirements: US3-3

Goal in Context: A user with a profile is able to respond to reviews posted by other users

Preconditions:
1) The user has the system open
2) User has selected a review they want to respond to

Successful End Condition: User with a Rhythmo profile was able to respond to a review

Failed End Condition: User with a Rhythmo profile was not able to to respond to a review

Primary Actors: User with Profile: person who has an account on Rythmo and has created a profile
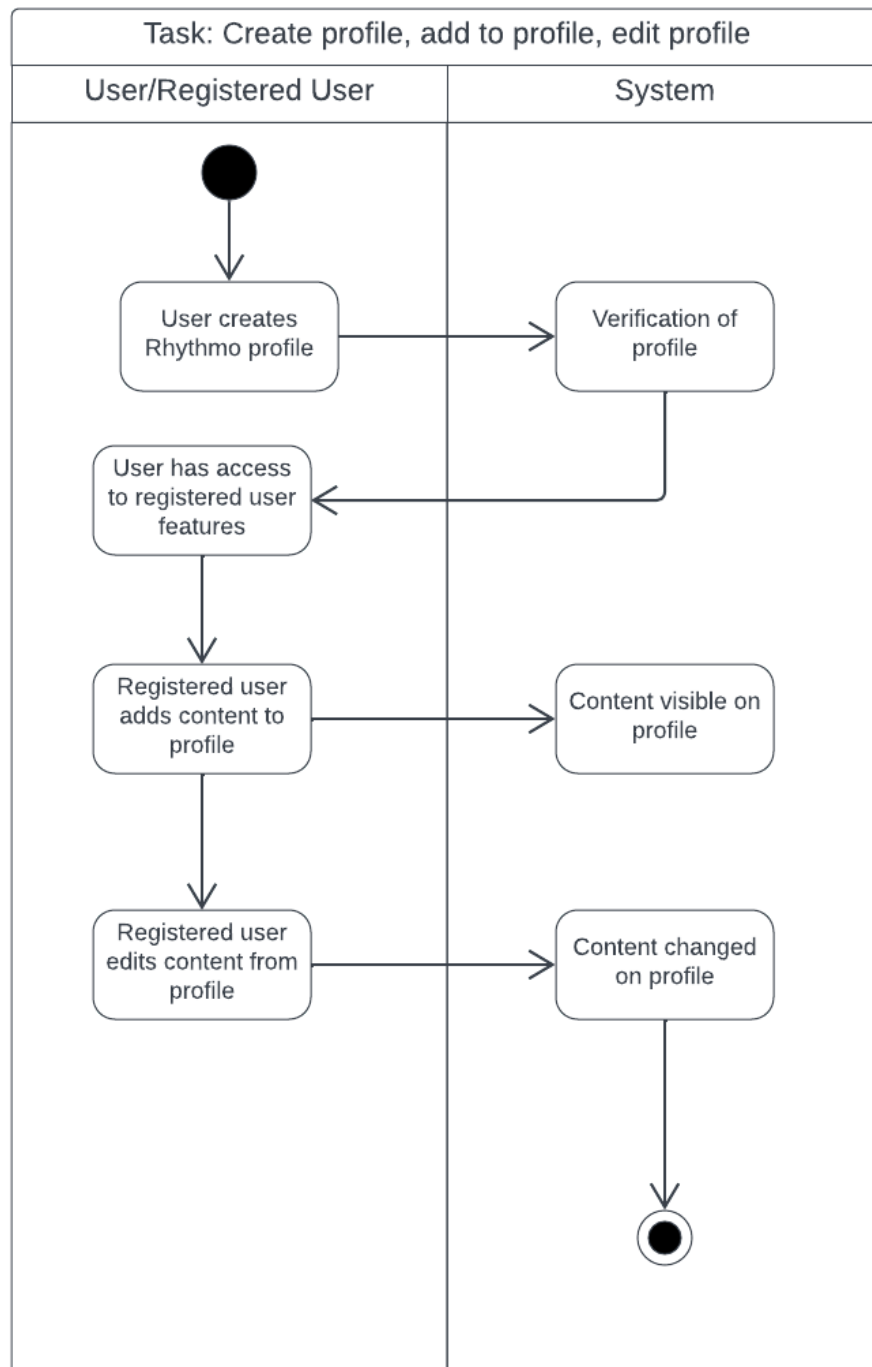
Secondary Actors: N/A

Trigger: User with a Rhythmo profile wants to respond to a review they saw on Rythmo

Main Flow of Events:
1) User chooses review they want to respond to
2) System shows review response area to user
3) User writes a response
4) User submits response
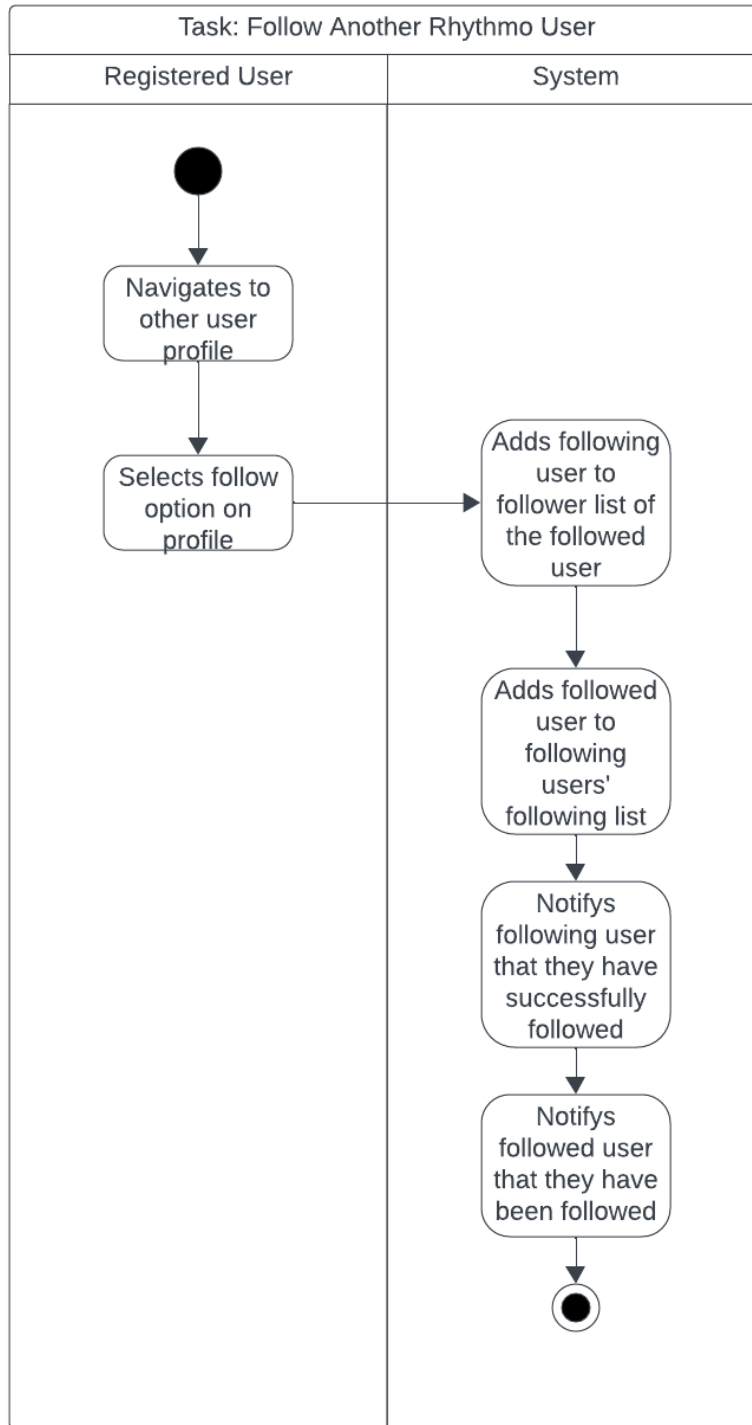5) System makes response visible to other users viewing the review

Activity Diagrams for Feature 1

Activity Diagram 1 Covers: US1-1, US1-2, US1-3

Activity Diagrams for Feature 2

Activity Diagram 2 Covers: US2-1

Task: Follow Another Rhythmo User

Registered User	System

Navigates to other user profile

Selects follow option on profile

Adds following user to follower list of the followed user

Adds followed user to following users' following list

Notifys following user that they have successfully followed

Notifys followed user that they have been followed

Activity Diagram 3 Covers: US2-2
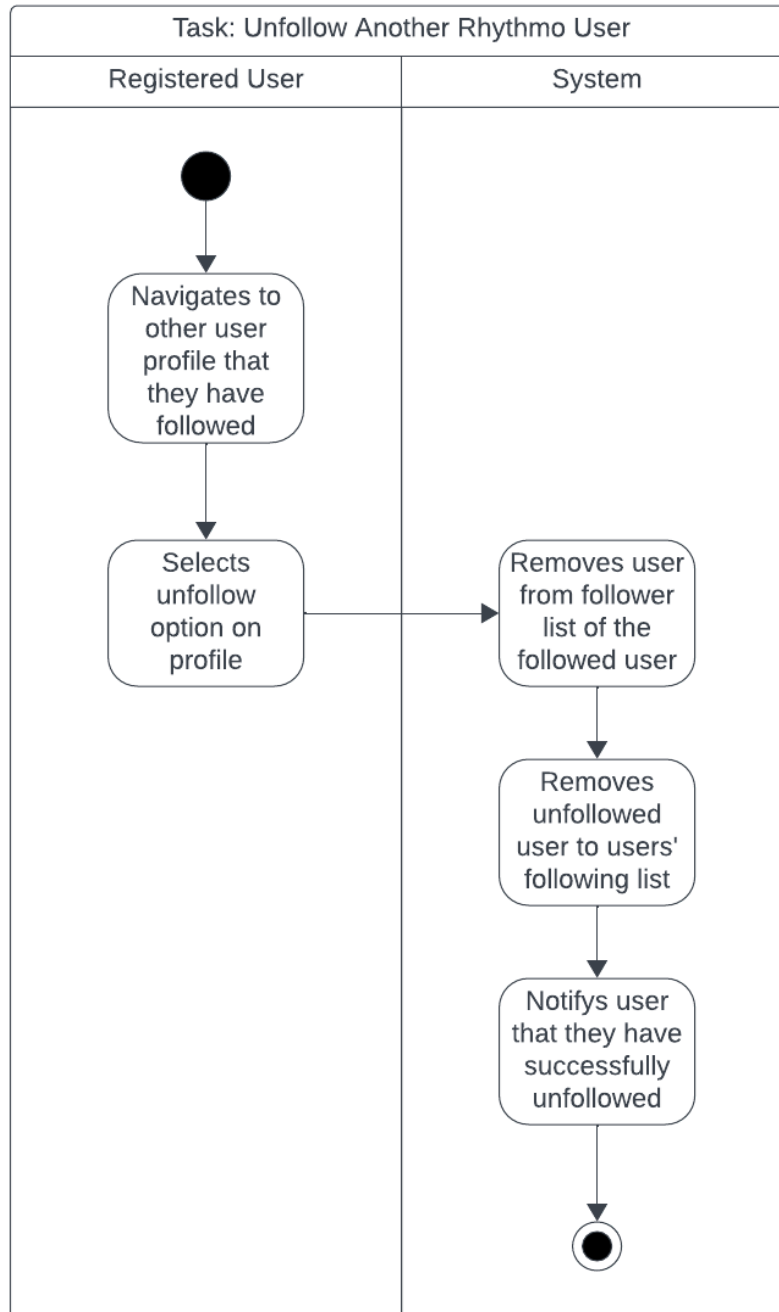
Activity Diagram 4 Covers: US2-3
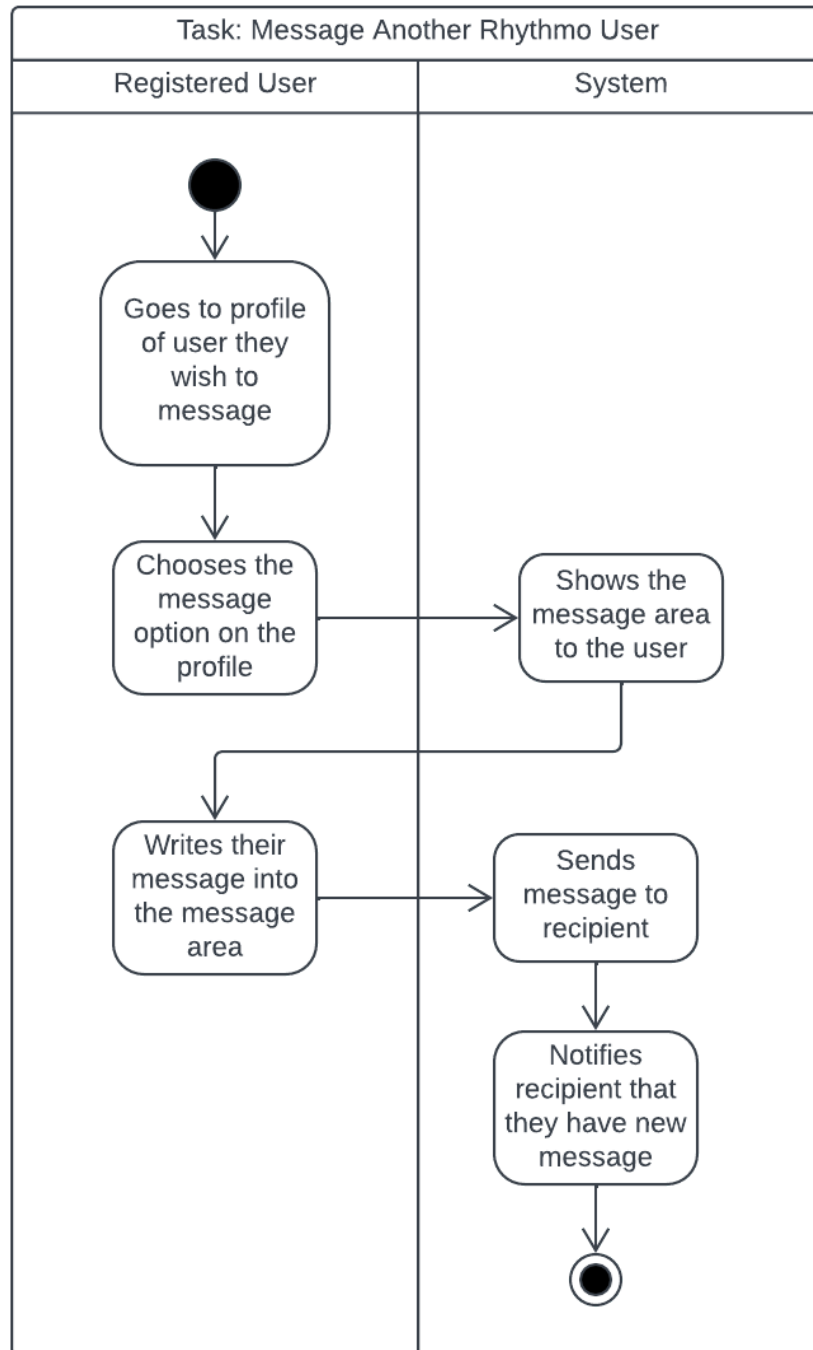
Activity Diagrams for Feature 3

Activity Diagram 5 Covers: US3-1
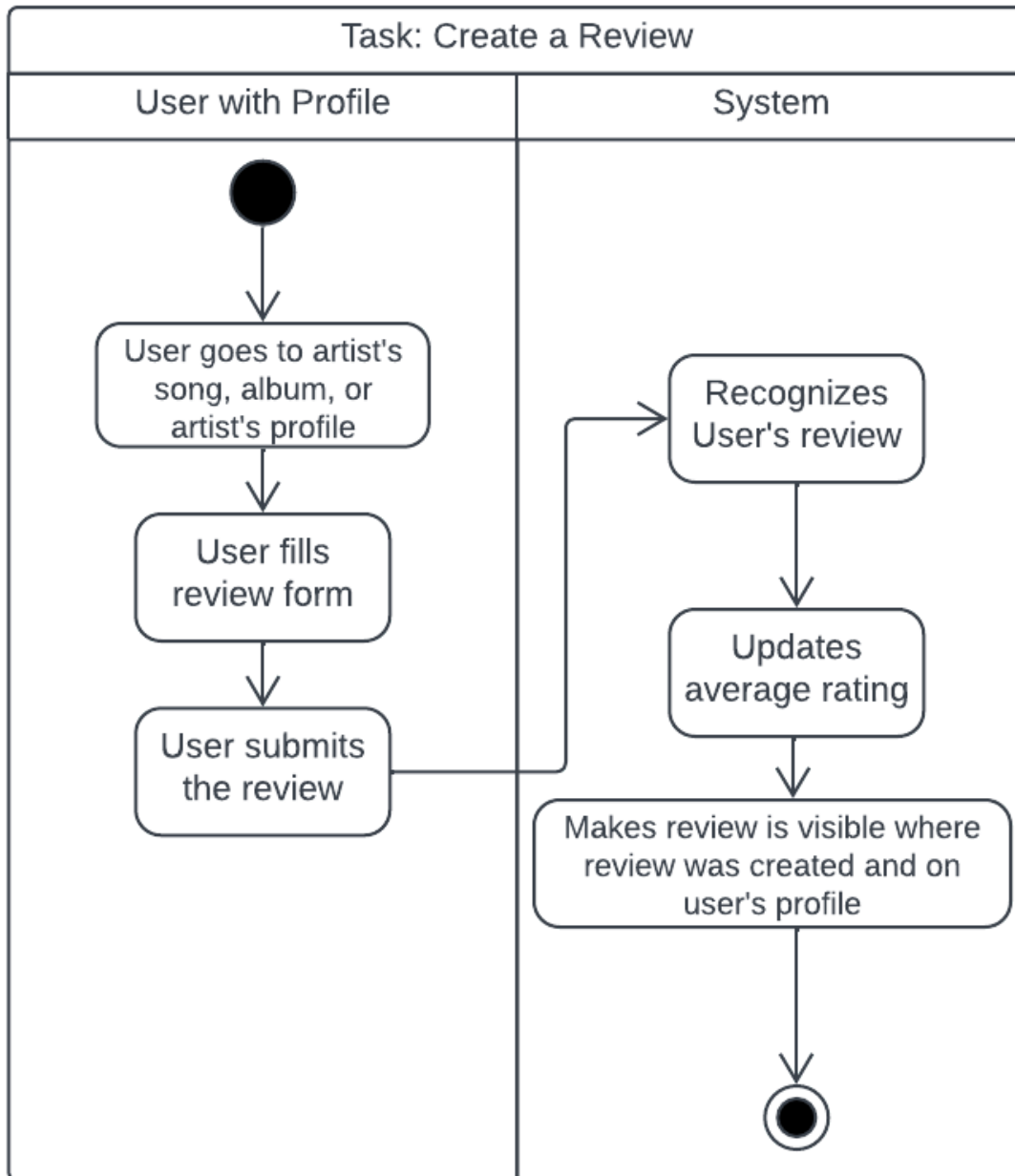
Activity Diagram 6 Covers: US3-2, US3-3

Task: View and Respond to a review

Registered User	System

User goes to an artist's song, album, or artist's profile they want to review

Shows all Rhythmo users' reviews for that song/album/artist

Shows review response area to user

User writes a response

User submits a response

Makes response visible to other users viewing the review

Class Diagram

Review

starrating
message

createReview()
respondToReview()

User

firstName
lastName
emailAddress

createProfile()

Rythmo Profile

username
password
followers
following

addToProfile()
editProfile()
shareProfile()
follow()
unfollow()
message()

Artist

firstName
lastName
averageRating
tracks
albums

Album

name
tracks
averageRating

Track

artistName
albumName
songName
averageRating

Is Used By

Is Used By

Is Added To

Is Added To

Is Added To

Creates

Creates

0..*

1

1

1

0..*

0..*

0..*

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1..*

1..*