



REQUIREMENTS ANALYSIS

**SOUND SWAP
PULLMAN, 99163**

3/8/2024





TABLE OF CONTENTS

INTRODUCTION	3
EXPLANATION OF USE CASE CONTENTS	3
USE CASES.....	4





INTRODUCTION

This Use Case has been developed for SoundSwap, our group's latest project which aims to make buying and selling equipment online easy for musicians. Our goal is to personalize the process of selling and buying instruments by allowing users to contact sellers, having a review system in place for users to review merchants, and allowing for users to favorite items they wish to keep updated on. Overall, the goal of SoundSwap is to provide our users with a unique personally created experience when browsing, purchasing, and selling instruments.

EXPLANATION OF USE CASE CONTENTS

Name of Use Case: Provide a short name for the use case which should lend itself to the objective of the system.

Description: This section should provide a description of both the reason for using the use case and the expected outcome of the use case.

Actors: Actors may be primary or secondary. Primary actors are the people who will be initiating the system described in the use case. Secondary actors are those who will participate in the completion of the use case.

Precondition: This section should describe any conditions that must be true or activities that must be completed prior to executing the use case.

Postcondition: This section should describe the state of the system at the conclusion of the use case. Postconditions may include conditions for both successful and unsuccessful execution of the use case.

Flow: This section should describe all actions of the user and the expected system responses for planned normal execution of the use case. The description should be sequential and provide adequate detail to understand all user actions and system responses.

Alternative Flows: Many use cases have varying or special extensions or conditions which are separate from the main flow but also necessary. Alternative flows are usually the result of options or exceptions built into the use case which may alter the primary flow.



Exceptions: When use cases are executed, there may be various conditions which result in errors. This section should describe any errors that may result during use case execution and how the system will react or respond to those errors.

Requirements: This section should describe any non-functional or special requirements for the system as the use case is executed. These requirements may consist of legal or regulatory requirements, quality standards, or organizational requirements that are outside of the functional requirements the system is expected to perform.

USE CASES

Name of Use Case:	Register Account		
Created By:	Ryan Luders	Last Updated By:	Ryan Luders
Date Created:	3/8/2024	Last Revision Date:	3/8/2024
Description:	Allows an unregistered user to create a new account on the platform which will let them buy, sell, and review products. Also allows for use of the messaging system.		
Actors:	Unregistered User		
Preconditions:	1. The user is able to access the sign up page.		
Postconditions:	1. The unregistered user has a registered account. 2. The user can now log in and perform any user specific actions.		
Flow:	1. User selects "Sign Up" on the main page. 2. User fills out the registration form, including email and password 3. System validates the provided information and creates a new account then redirects to user login page.		
Exceptions:	3. In step 3 of the normal flow, if the system receives invalid information 1. The user is prompted with an error message and must re-enter information and submit again.		
Requirements:	1. User must provide a valid email address that is not already associated with an account. 2. Password must meet security requirements.		

Name of Use Case:	Post Instrument Listing
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Created By:	Ryan Luders	Last Updated By:	Ryan Luders
Date Created:	3/8/2024	Last Revision Date:	3/8/2024
Description:	Allows a seller to create a new listing for an instrument they wish to sell.		
Actors:	Registered Seller		
Preconditions:	<ol style="list-style-type: none">1. The seller is logged into their account.2. The seller has at least one item to sell.		
Postconditions:	<ol style="list-style-type: none">1. The instrument listing is created and visible to other users.		
Flow:	<ol style="list-style-type: none">1. The seller goes to the Create Listing page.2. The seller fills out the form with item details such as name, condition, price and photos.3. The seller submits the listing for system review.4. The System validates the listing.5. The system posts the listing and notifies the seller.		
Exceptions:	<ol style="list-style-type: none">2. In step 4 of the normal flow, if the listing is incomplete or invalid<ol style="list-style-type: none">1. The system does not post the listing.2. The system notifies the seller with a error message.		
Requirements:	<ol style="list-style-type: none">1. All listings must include at least one image and a description along with quality assessment.2. Quality assessment must be accurate.		

Name of Use Case:	Purchase Item		
Created By:	Ryan Luders	Last Updated By:	Ryan Luders
Date Created:	3/8/2024	Last Revision Date:	3/8/2024
Description:	Allows a user or viewer to purchase an item listed on the website.		
Actors:	Registered or Unregistered User, Seller,		
Preconditions:	<ol style="list-style-type: none">1. The user is logged into their account.2. The instrument is listed and available for purchase.		
Postconditions:	<ol style="list-style-type: none">1. The instrument listing is removed or marked as sold.2. The seller is notified.3. The User receives shipping details and a receipt.		
Flow:	<ol style="list-style-type: none">1. User navigates to the instrument listing page.2. User clicks on the "Purchase" button.3. System prompts the user to confirm the purchase and shipping address.		



	<ol style="list-style-type: none">4. System updates the listing status to "Sold" and notifies the seller.5. The seller ships the instrument to the User.6. User receives the instrument and marks the order as received in the system.
Exceptions:	<ol style="list-style-type: none">2. In step 2 of the normal flow, if the item is sold out:<ol style="list-style-type: none">1. System notifies the user that the item is no longer up for purchase.2. User is returned to home page.3. In step 3 of the normal flow, if the payment fails:<ol style="list-style-type: none">1. The system notifies the user and cancels the purchase process.4. In step 4 of the normal flow, if the user requests a refund:<ol style="list-style-type: none">1. The seller receives the cancellation request and approves or denies based on the status of the order.2. If approved, the system processes the refund to the buyer.3. The order status is updated to "Canceled."
Requirements:	<ol style="list-style-type: none">1. User must provide a valid email address that is not already associated with an account.2. Password must meet security requirements.

Name of Use Case:	Admin Moderates Listing		
Created By:	Ryan Luders	Last Updated By:	Ryan Luders
Date Created:	3/8/2024	Last Revision Date:	3/8/2024
Description:	Allows a admin to review and moderate item listings.		
Actors:	Platform Administrator		
Preconditions:	<ol style="list-style-type: none">1. The admin is logged into their account.2. There are listings available to be moderated.		
Postconditions:	<ol style="list-style-type: none">1. Listings can be edited or removed based on the admin's thoughts.		
Flow:	<ol style="list-style-type: none">1. Administrator reviews a queue of new or flagged listings.2. Administrator approves listings that meet all guidelines.3. For listings that violate guidelines, the administrator either edits the listing or removes it from the platform.4. System notifies sellers of any changes to their listings or if their listing has been removed.		
Alternative Flows:	<ol style="list-style-type: none">3. In step 3 of the normal flow, if the administrator wants more information to be added to the post:		



	<ol style="list-style-type: none">1. The administrator sends a message to the seller asking for the required information.2. Seller updates and / or messages the administrator back.3. The administrator reviews the update and approves, requests further edits, or removes the item listing.5. In step 5 of the normal flow, if the buyer is a user:<ol style="list-style-type: none">1. The system provides them with a tracking number for their order.
Exceptions:	<ol style="list-style-type: none">4. In step 4 of the normal flow, if the admin attempts to approve or delete a listing that no longer exists:<ol style="list-style-type: none">1. The system recognizes it does not exist anymore and notifies the administrator with an error message.
Requirements:	<ol style="list-style-type: none">1. User must provide a valid email address that is not already associated with an account.2. Password must meet security requirements.

Name of Use Case:	Messaging Between Users		
Created By:	Ryan Luders	Last Updated By:	Ryan Luders
Date Created:	3/8/2024	Last Revision Date:	3/8/2024
Description:	Allows users to communicate directly within the platform for inquiries about listings, negotiation, or after-purchase communication.		
Actors:	Registered User (Buyer, Seller)		
Preconditions:	<ol style="list-style-type: none">1. Both users are registered and logged in.		
Postconditions:	<ol style="list-style-type: none">1. Message sent by one user is received by the other.		
Flow:	<ol style="list-style-type: none">1. User navigates to the listing page or user profile they wish to message.2. User clicks on the "Message" button.3. User types and sends a message.4. Recipient receives a notification of the new message.		
Exceptions:	<ol style="list-style-type: none">2. In step 2 of the normal flow, if the recipient has blocked the sender:<ol style="list-style-type: none">1. The system notifies the sender that the message cannot be sent.		
Requirements:	<ol style="list-style-type: none">1. Messages must not contain inappropriate content.2. The system should maintain a record of all messages.		



Name of Use Case:	Reviewing Sellers		
Created By:	Ryan Luders	Last Updated By:	Ryan Luders
Date Created:	3/8/2024	Last Revision Date:	3/8/2024
Description:	Enables buyers to review sellers after a transaction		
Actors:	Registered Buyer, Seller		
Preconditions:	1. The buyer has completed a purchase from the seller.		
Postconditions:	1. The seller receives a review that is visible to other users.		
Flow:	1. After receiving the item, the buyer is prompted to leave a review. 2. The buyer submits a review including a rating and optional comment. 3. The system publishes the review on the seller's profile.		
Alternative Flows:	1. In step 1 of the normal flow, if the user does not want to leave a review: 1. The user selects no thanks on the review prompt. 2. The user is returned to the home screen and no review is recorded.		
Exceptions:	2. In step 2 of the normal flow, if the user who purchased leaves a review that is inappropriate: 1. The system recognizes it is inappropriate and rejects the review.		
Requirements:	1. Review must be submitted after the transaction has been completed. 2. User must have purchased something from the buyer to review them.		

Name of Use Case:	User Manages Favorites		
Created By:	Ryan Luders	Last Updated By:	Ryan Luders
Date Created:	3/8/2024	Last Revision Date:	3/8/2024
Description:	Allows users to add listings to a personal Favorites for future reference.		
Actors:	Registered User		
Preconditions:	1. User is logged in and browsing listings.		
Postconditions:	1. Selected listings are added to the user's Favorites.		
Flow:	1. User finds a listing they are interested in but not ready to purchase. 2. User clicks the "Favorite" button on the listing. 3. System confirms the addition and updates the user's Favorites.		



Exceptions:	2. In step 4 of the normal flow if the listing is removed or sold before the user adds it to their Favorites: 1. The system notifies the user but still adds to Favorites.
Requirements:	1. Users must be able to view and manage their Favorites from their profile. 2. The system should notify users of changes to listings in their Favorites such as price changes and availability.

SPONSOR ACCEPTANCE





Approved by the Project Sponsor:

Ryan Luders Date:3/8/2024

Ryan Luders

Group Member of 489 Musical E-Commerce Project

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