For The Record - Music Store

Requirements Analysis

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Introduction

The Requirements Analysis document is a document that provides information regarding our website "For The Record". More specifically, this document covers use cases and user roles. This document will walk you through the various user roles and the use cases that these roles govern. Each use case provides step-by-step information regarding the case as well as any exceptions and requirements.

Explanation of Use Case Contents

Name of use Case: Short name for the use case that should lend itself to the objective of the use case

Description: Description of both the reason as well as the expected outcome of the use case

Actors: Actors that may be involved in the given use case

Precondition: Any conditions that need to be met for the system to work

Postcondition: State of the system after the conclusion of the use case

Flow: Describes the steps of the use case

Alternative Flows: Describes any alternate ways in which the use case may be met/used

Exceptions: States any exceptions to the given flow/alternative flows as well as the steps taken to resolve those exceptions

Requirements: Describes anything necessary for the given use case to work

I. Use Cases

Name of use Case: Remove item from cart
Last Updated: 3/7/2024
Date Created: 3/7/2024
Description: Buyer clicks the "Remove" button on an item in their shopping cart
Actors: User
Preconditions:

1. Have an item in shopping cart

Postconditions:
1. Item count is decreased by 1

Flow:
1. Buyer is in the shopping cart screen
2. Buyer identifies an item they are no longer interested in
3. Buyer clicks the correct button

Alternative Flows:
Exceptions:
Requirements:
1. There needs to be an item in the shopping cart

Name of use Case: Checkout items
Last Updated: 3/7/2024
Date Created: 3/7/2024
Description: User clicks on the "Checkout" button to purchase their items, then buy the items after filling out the necessary information
Actors: User
Preconditions:
1. Buyer has at least one item in their shopping cart

Postconditions:
Flow:
1. Buyer is in the shopping cart page
2. Buyer clicks the "Checkout" button
3. Buyer inputs a first name, last name, email, address, and payment info
4. Website checks to ensure first and last name aren't blank, that card info appears to be correct (may implement a banking API later), checks that email contains a '@' and '.com' (may implement a email API later), and lastly checks that address appears correct (may also implement an address API later)

Alternative Flows:
Exceptions:
1. In step 4 of the normal flow, if website identifies any incorrect information
2. Website flags the improper lines (i.e. if a email appears incorrect, that line is flagged)

3. Assuming the buyer fixes their inputs, the purchase succeeds. If a line is still incorrect, we repeat the process of this exception flow

Requirements:
1. Buyer has at least one item in their shopping cart

Name of use Case: Search
Last Updated: 3/7/2024
Date Created: 3/7/2024
Description: Buyer clicks on the search bar to look for specific items in the store
Actors: User
Preconditions:
Postconditions:
Flow:
1. User clicks on the search bar and inputs characters
2. User clicks the "Go" button
3. User is sent to a page only containing items that contain the characters inputted in the search bar

Alternative Flows:
1. User inputs nothing into the search bar and presses the "Go" button
2. User is sent to a page containing all items in the store

Exceptions:
Requirements:

Name of use Case: Create Product
Last Updated: 3/7/2024
Date Created: 3/7/2024
Description: User creates a product to sell on store
Actors: Artist, Admin
Preconditions:
1. User has an account with the store and is approved to post products (Artist or Admin)

Postconditions:
1. If submitted by an artist, their items are confirmed by the store before being publicly published

Flow:
1. Artist clicks on the "Create Product" button within the artist page

2. Artist inputs all of the necessary information and submits the product for review

Alternative Flows:
1. Admin clicks the "Create Product" button within the admin page
2. Admin inputs all of the necessary information and submits the product to the public store

Exceptions:
Requirements:
1. User has permission to submit products for review/publish directly to public (Artist or Admin)

Name of use Case: Remove Product
Last Updated: 3/7/2024
Date Created: 3/7/2024
Description: User removes a product from the store page
Actors: Artist, Admin
Preconditions:
1. User has an account with the store is approved to post products (Artist or Admin)

Postconditions:
1. If removed by an Artist, an admin will need to review to remove the product

Flow:
1. Artist is viewing their product on the artist page
2. Artist clicks the "Remove Product" button on a product they no longer want
3. Artist fills out all the necessary information so the store/admin knows why the product is being removed

Alternative Flows:
1. Admin is viewing products on the store while logged in as an admin
2. Admin clicks the "Remove Product" button on a product they no longer want
3. Admin fills out information regarding why a product is being removed and clicks the submit button

   Alternative:
1. Admin is viewing products that artists are requesting to remove
2. Admin reviews a product that is being petitioned to be removed
3. Admin confirms the information and clicks the "Remove Product" button on the product while logged in as an admin
4. Admin fills out information regarding why a product is being removed and clicks the submit button

Exceptions:
Requirements:
1. User has an account with the store is approved to post products (Artist or Admin)

Name of use Case: Create Account
Last Updated: 3/7/2024
Date Created: 3/7/2024
Description: User accesses the create account page
Actors: User
Preconditions:
Postconditions:
1. Account will be remembered by the store

Flow:
1. User is on one of the various pages within the store
2. User clicks on the profile page
3. User is not currently logged in and thus will be prompted to create an account

Alternative Flows:
1. User is about to check out while logged out
2. User is prompted whether they would like to create an account
3. User opts to create an account

Exceptions:
Requirements:
1. User must be logged out (may add functionality for creating an account while logged in later if we deem it to be productive)

Name of use Case: View Product Listing
Last Updated: 3/7/2024
Date Created: 3/7/2024
Description: Buyer clicks on some portion of a product listing
Actors: User
Preconditions:
1. The store must have at least one product displayed

Postconditions:
Flow:
1. Buyer identifies a product they want to inquire more about
2. Buyer clicks on some portion of the product while on the shopping page

Alternative Flows:
1. Buyer is viewing their shopping cart
2. Buyer clicks on one of the products in their shopping cart

Exceptions:
Requirements:
1. At least one product must be displayed

Name of use Case: Artist/Genre/Year Search
Last Updated: 3/7/2024
Date Created: 3/7/2024
Description: User clicks on either the Artist, Genre, or Year tile at the top
Actors: User
Preconditions:
Postconditions:
Flow:
1. User clicks on the Artist tile
2. User is sent to a list of Artists to choose from
3. User clicks on an Artist and is sent to a page containing only products they've published

Alternative Flows:
1. User clicks on the Genre/Year tile
2. User is sent to a list of genres/years to choose from
3. User clicks on a genre/year and is sent to a page containing only products from that genre/year

    Alternative:
1. User clicks on a specific genre/year from the drop down of that menu tab
2. User is sent to a page containing only products from that genre/year

    Alternative:
1. User clicks on a specific artist from the drop down of that menu tab
2. User is sent to a page containing only products published by that artist

Exceptions:
Requirements:

Name of use Case: Add item to cart
Last Updated: 3/7/2024
Date Created: 3/6/2024
Description: Buyer clicks the "Add to Cart" button on an item on the shopping screen

Actors: User
Preconditions:

1. Item is in stock

Postconditions:

1. Item count is increased by 1

Flow:

1. Buyer is on a screen that allows them to purchase items (most likely the main page or an individual items description page)
2. Buyer identifies product they are interested in
3. Buyer adds item to cart by clicking the correct button

Alternative Flows:
Exceptions:
Requirements:

1. Item must be in stock

II.   Actors and User Roles

User - Everyone is initially a user, this may be someone with an account currently logged out, or they're logged in as a customer. In our use cases it will also include admins and artists (artists/admins can do everything a user can do)

Artist - This role creates and removes products under their accounts name. Though they are able to purchase items themselves this role is primarily intended for creating products to show on the store front.

Admin - This role creates and removes products. This role has the highest access to the website (able to edit features, remove products, etc relatively easily). This role also acts as a buffer to the public (this role accepts add/remove requests from artists regarding their products).