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# Music Store System

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# Introduction:

The Music Store System is a C++ application designed to facilitate the management of a music retail store. This system provides functionalities for managing albums, processing orders, and offering a seamless shopping experience for both customers and store administrators.

# System Overview

The Music Store System consists of several components:

* **Album Management**: Allows the addition, removal, and display of albums in the store inventory.
* **Order Processing**: Enables customers to add albums to their carts, review their orders, and calculate the total amount.
* **Authentication**: Ensures secure login for both customers and administrators.
* **Genre and Artist Filtering**: Facilitates searching for albums based on genre and artist.
* **File Handling**: Reads album information from a file and updates the file when new albums are added.

# Key Features

**Album Management**: Users can view available albums, add new albums to the inventory, and remove existing albums.

**Order Processing**: Customers can add albums to their carts, review their orders, and calculate the total amount before checkout.

**Authentication**: Users are required to log in with valid credentials to access the system, ensuring security.

**Genre and Artist Filtering**: Users can filter albums based on genre or artist, making it easier to find specific music.

**File Handling**: The system reads album information from a file on startup and updates the file when new albums are added.

# Functionality

* **Display Albums**: Users can view a list of available albums with details such as album name, artist name, genre, and price.
* **Add New Album**: Administrators can add new albums to the inventory by entering album details.
* **Remove Album**: Administrators can remove existing albums from the inventory.
* **Add to Cart**: Customers can add albums to their carts for purchase.
* **Remove from Cart**: Customers can remove albums from their carts.
* **Calculate Total**: The system calculates the total amount of the order based on the albums in the cart.
* **Genre and Artist Filtering**: Users can filter albums by genre or artist to narrow down their search.

# User Guide

* Use these credentials to log in to the system:

Username: user

Password: password123

* Open AlbumInfo.txt file in the same place as the source code

# Conclusion

The Music Store System offers a comprehensive solution for managing a music retail store efficiently. With features for album management, order processing, and user authentication, this system provides a seamless experience for both customers and store administrators. By leveraging C++ programming, the system ensures robustness, reliability, and scalability, making it an ideal choice for music retailers of all sizes.