

IT2020 – Software Engineering

Year 2, Semester 2, 2024

Group Assignment



Online Music Store

Group Details

Campus: Matara Center

SE/OOP Group Number: MTR Y2S1 WD6

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3	IT23336322	ABDULLAH M.Z
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Introduction

At Beat Box Music Store, we are redefining the way you experience music in the digital age. Our platform is a comprehensive, interactive, and user-friendly space where music lovers, creators, and curators unite. Whether you crave the latest chart-toppers, timeless classics, or underground gems, Beat Box offers a vast and diverse music library catering to every taste and genre.

What sets Beat Box apart is its commitment to personalized experiences. Our intelligent algorithms help you discover new tracks, artists, and albums based on your listening habits and preferences. Plus, our innovative playlist curation tools let you create and share your own collections with the world. As a hub for both casual listeners and passionate audiophiles, Beat Box provides a seamless journey from exploring music to making purchases—all in one dynamic platform.

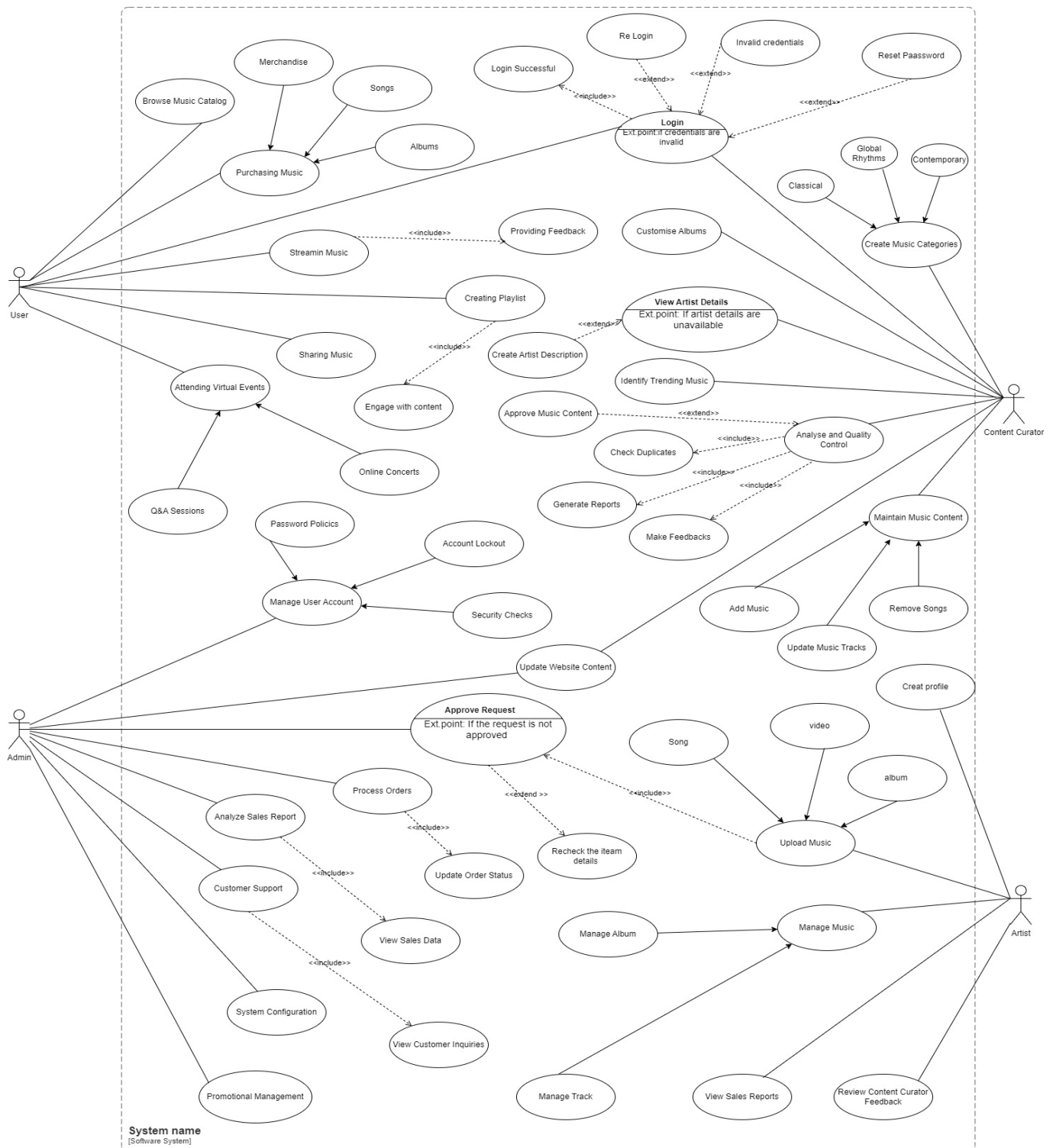
For artists, Beat Box Music Store is more than just a marketplace. We empower musicians to showcase their work to a global audience, fostering meaningful connections between creators and their fans. With features designed to support emerging talent and established artists, Beat Box ensures that every voice in the music industry has the Opportunity to shine.

At Beat Box Music Store, music is more than just sound. It's a passion, and a universal language. We're dedicated to creating a space where music lovers and creators can find, share, and celebrate the rhythms that move them. Step into the world of Beat Box, and let your journey through music begin. Whether you're here to discover, purchase, or share, Beat Box Music Store is your ultimate destination for all things music.

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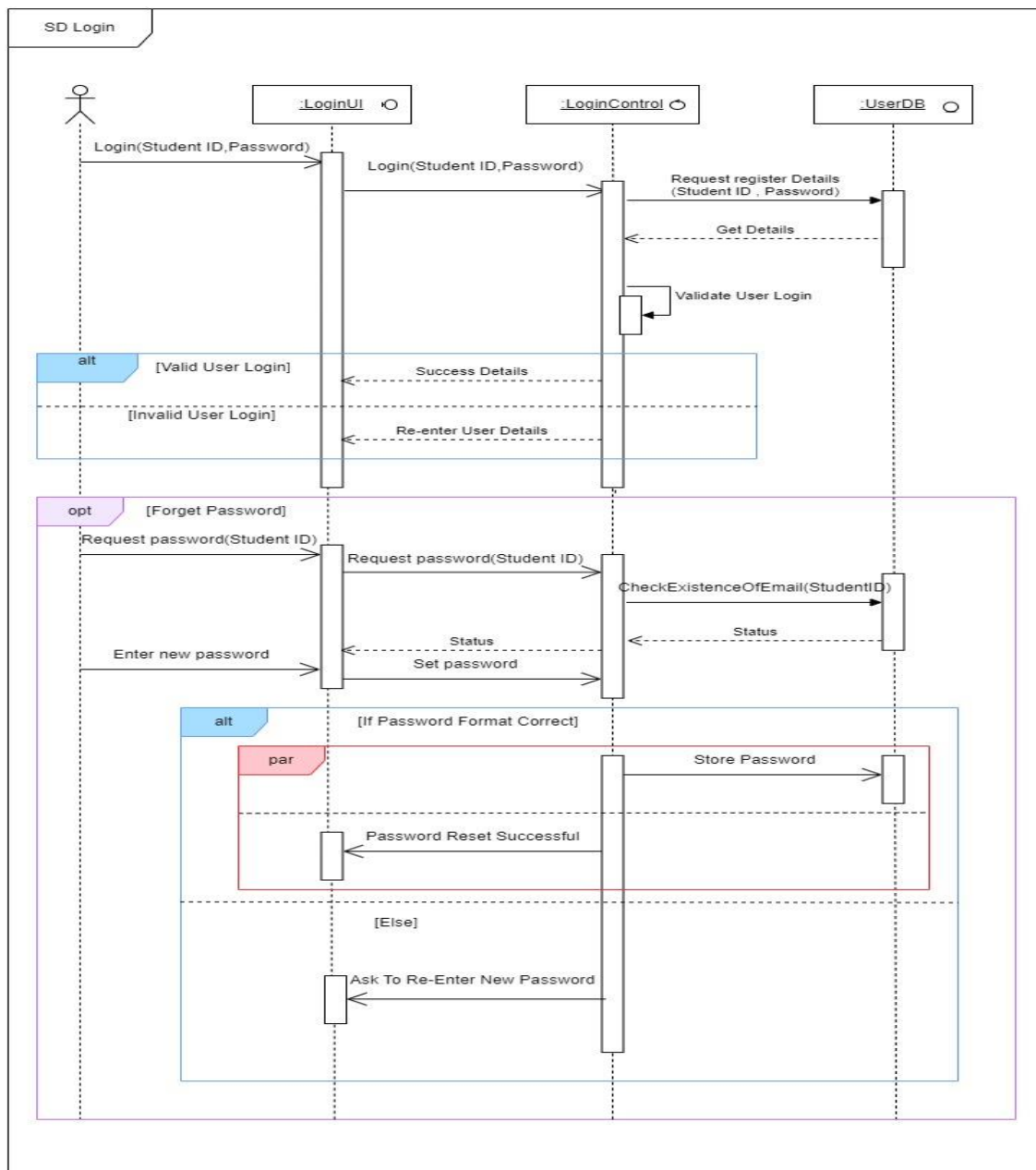
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Use Case Diagram



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Sequence Diagram - User Login



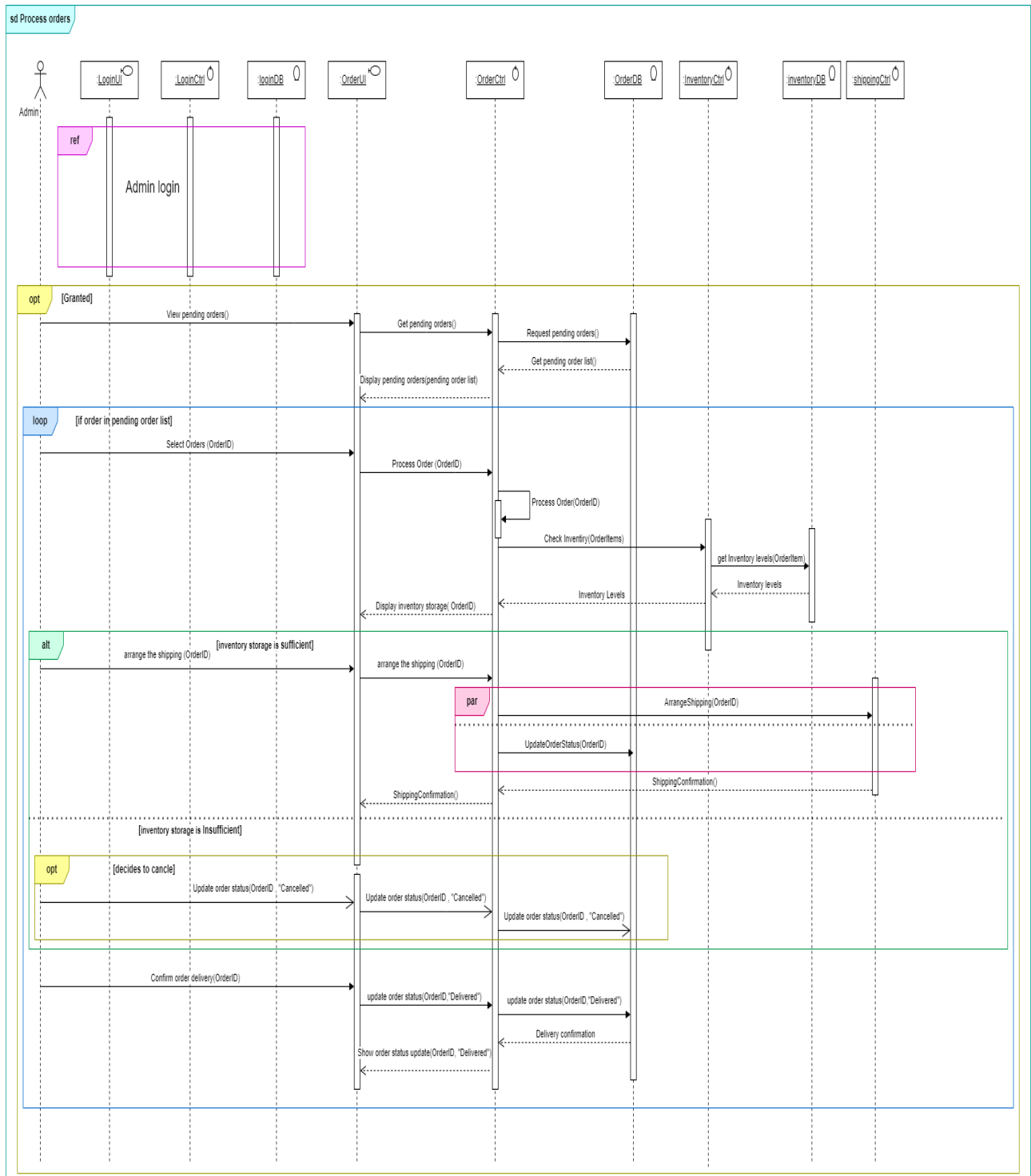
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IT23241114 | SASANKA W.D.S.G.S

Use Case Scenario – Process Orders

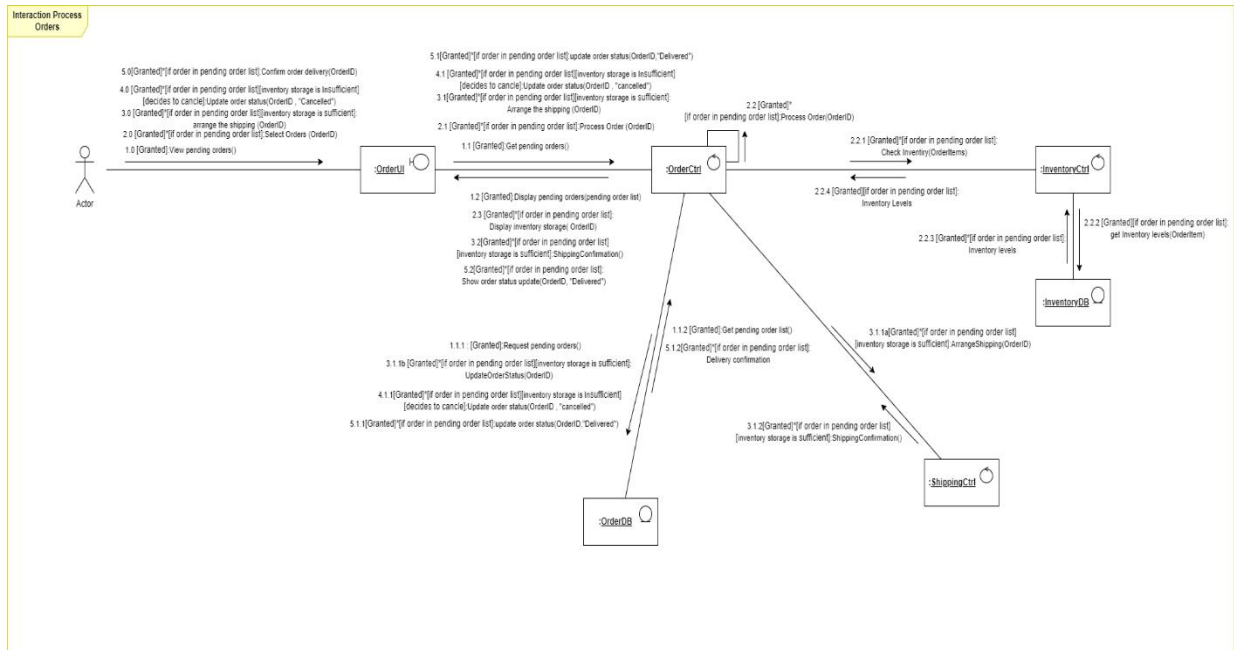
Number	01	
Name	Process Orders	
Summary	Admin Process customer orders, including order status updates, inventory adjustments and customer notification	
Priority	02	
Pre-condition	Customer orders are placed and stored in the system.	
Post-Condition	Orders are processed, with updated statuses and inventory levels. Customers are notified of their order status.	
Primary Actor	Admin	
Main Scenario	Steps	Action
	01	Admin accesses the online music store's admin dashboard.
	02	Admin enters login credentials to the system.
	03	The entered details are verified by the system.
	04	Visit the "Orders Management" page.
	05	Select the Orders to view pending orders.
	06	Review order details, including customer information, order items, and payment status.
	07	Process the order and verify inventory levels.
	08	Arrange the shipping for orders.
	09	Upon delivery confirmation, update the order status to "Delivered".
	10	Log out from the account.
Extension	Steps	Action
	02.a.1.	Credentials are invalid.
	02.a.2.	System displays a notification "Credentials are invalid. Please try again".
	02.a.3.	Redirect to the login page.
	06.a.1.	Inventory shortages are reported.
	02.a.2	Send an alert to the admin to resolve the shortage.
	02.b.1	Payment issue reported.
	02.b.2	Contact the customer to resolve the payment issue or cancel the order.
	08.a.1	Shipping delay occurs.

Sequence Diagram- Process Orders



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Communication Diagram – Process Orders



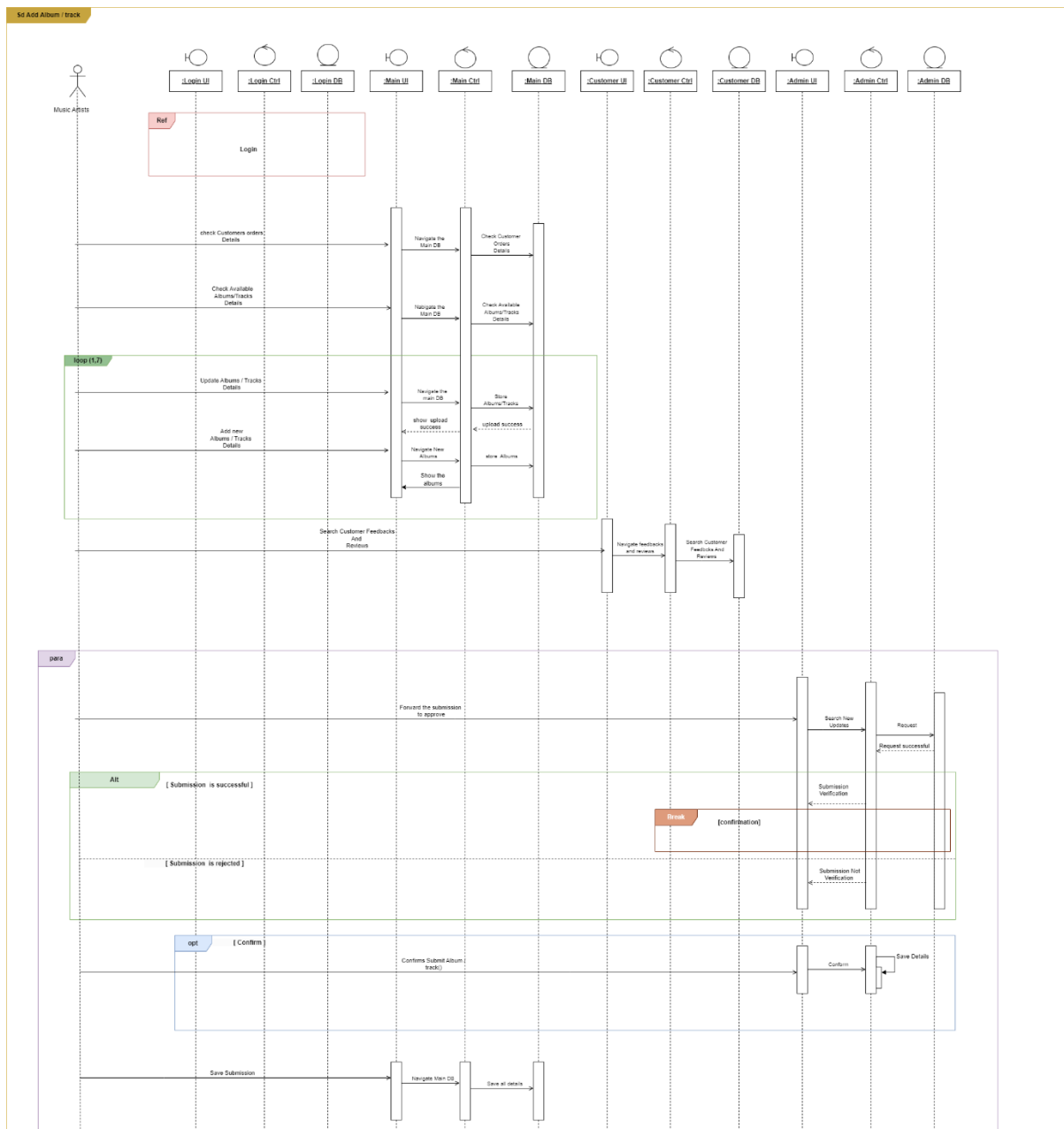
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IT23344556 | JAYAWICKRAMA W T L

Use Case Scenario – Add Album

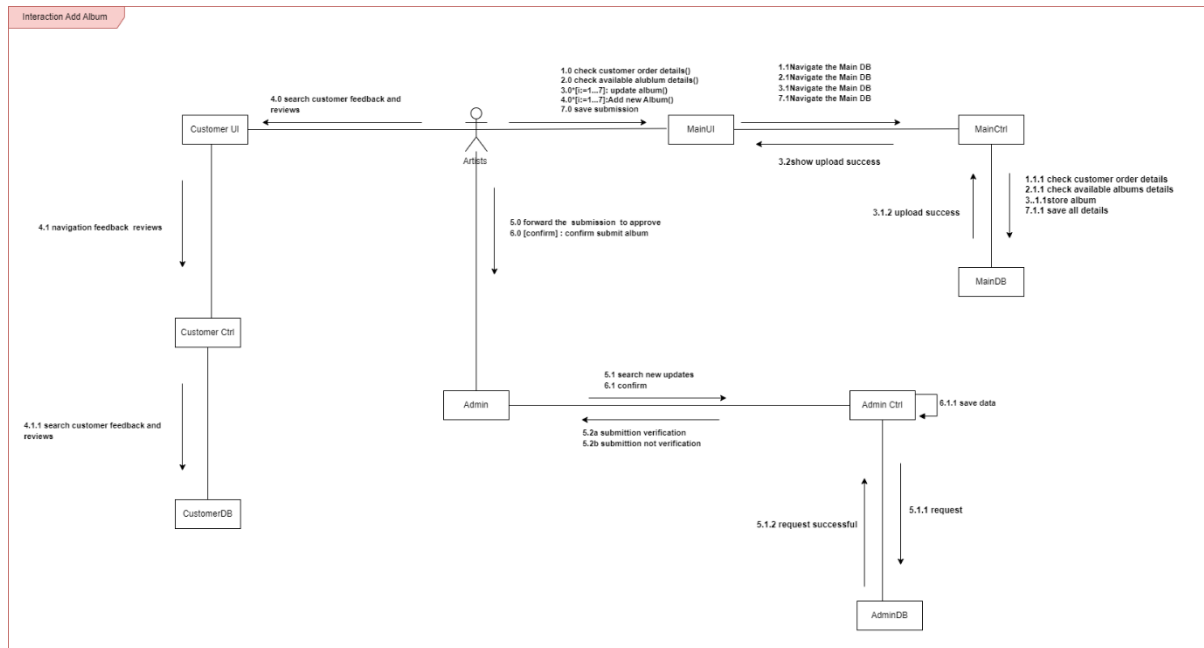
Number	02	
Name	Add Albums	
Summary	Adding album details to the online store	
Priority	03	
Pre-condition	User has Visit the Web Site.	
Post-Condition	Album details are confirmed and added to the store.	
Primary Actor	Music Artist	
Trigger	Add album details	
Main Scenario	Steps	Action
	01	Login to the website using credentials.
	02	Navigation to the “Music Artist” page through the dashboard.
	03	Check the customers’ orders and what are the available now.
	04	Update New Music albums.
	05	Add New Music Albums. Then Fill in the album details such as artist name, album title, release date, genre and track listing.
	06	Search the customer feedback and Reviews.
	07	Review a summary of the entered details.
	08	Press “Save and confirm” after filling in the details.
	09	Get a success notification confirming the album has been added.
	10	Press “Submit” to the save entered album details
	11	The system saves the album details in the music store’s database.
	12	The system saves the album details in the music store’s database.
Extension	Steps	Action
	01a	Display error message if the entered login credentials are wrong.
	02a	Music Artist can add album details during inventory updates.
	07a	Allow the administrator to edit the album details before final submission.
	08a	If any required field is missing, show a prompt to fill in all necessary information.

Sequence Diagram- Add Albums



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Communication Diagram – Add Albums



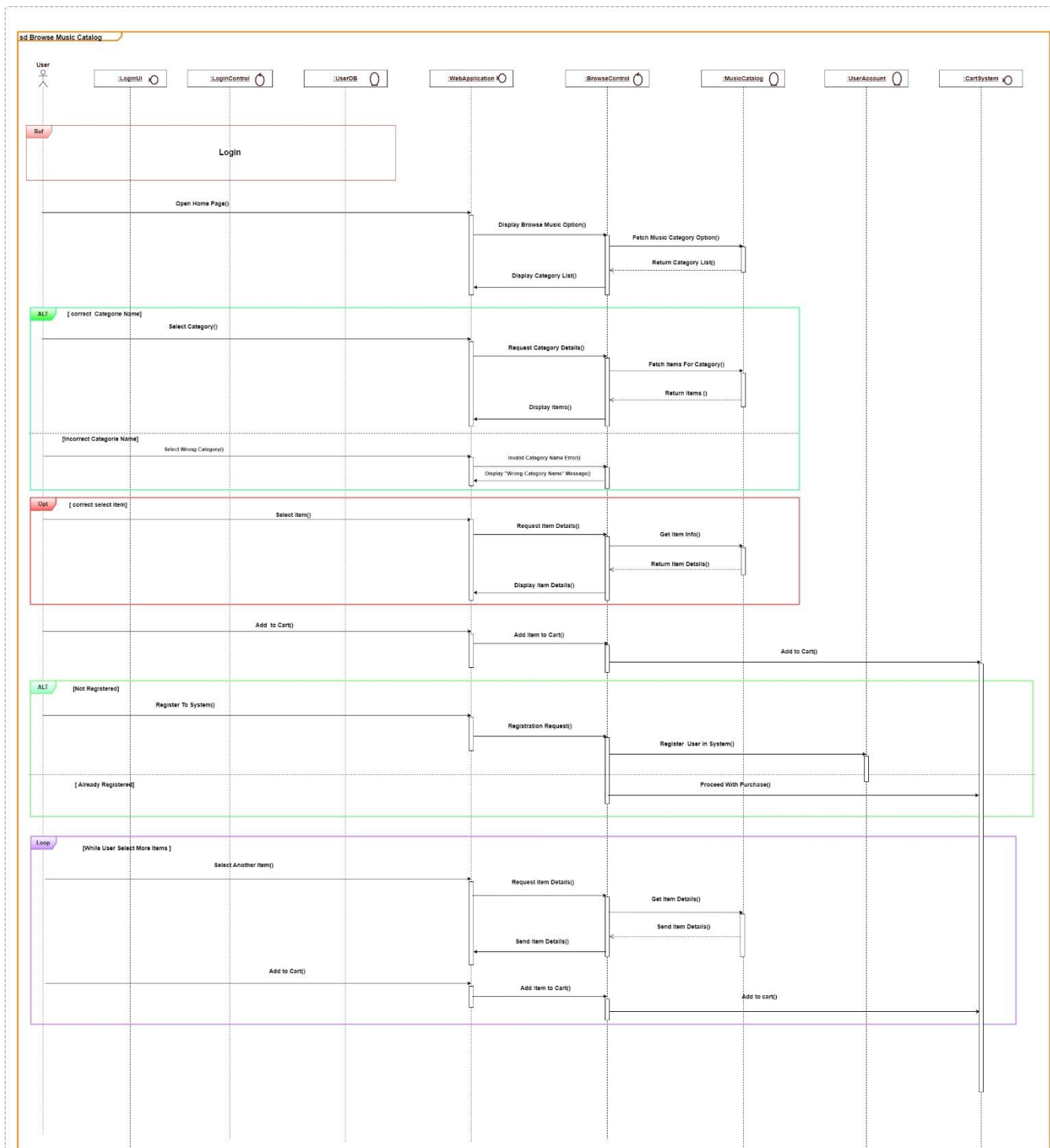
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IT23336322 | Abdullah M.Z

Use Case Scenario – Browse Music Catalog

Number	03	
Name	Browse music catalog	
Summary	User browse music catalog an online store	
Priority	02	
Pre-condition	User visit to the home page of the online store website	
Post-Condition	System displays the list of matching and available items	
Primary Actor	User	
Main Scenario	Steps	Action
	01	User opens the online store web Application
	02	Display the home page
	03	Navigate to the Browse catalog
	04	Display the Brows catalog option
	05	Browes the categories
	06	System display Category list
	07	User selects the item
	08	Display item details
	09	User selects the Add to cart option
	10	System display “Register the System” Message
	11	User register to the system
Extension	Steps	Action
	05a.	Given wrong Category name
	05a1.	System will display error Notification “Wrong category name”
	09a.	Want to buy items
	09a1.	System display “Register system”

Sequence Diagram- Browse Music Catalog



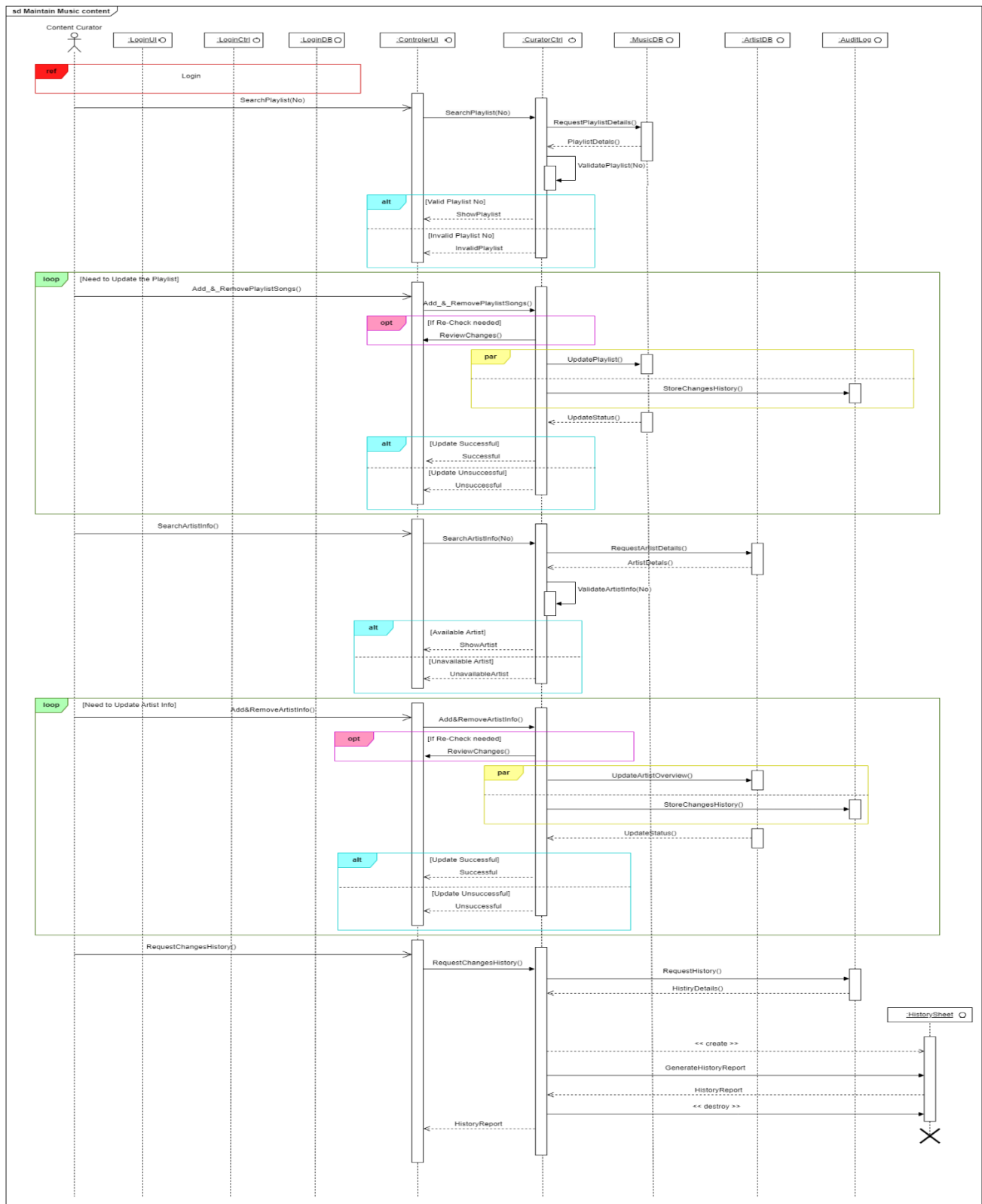
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IT23491526 | KODITHUWAKKU P R M

Use Case Scenario – Maintain Music Content

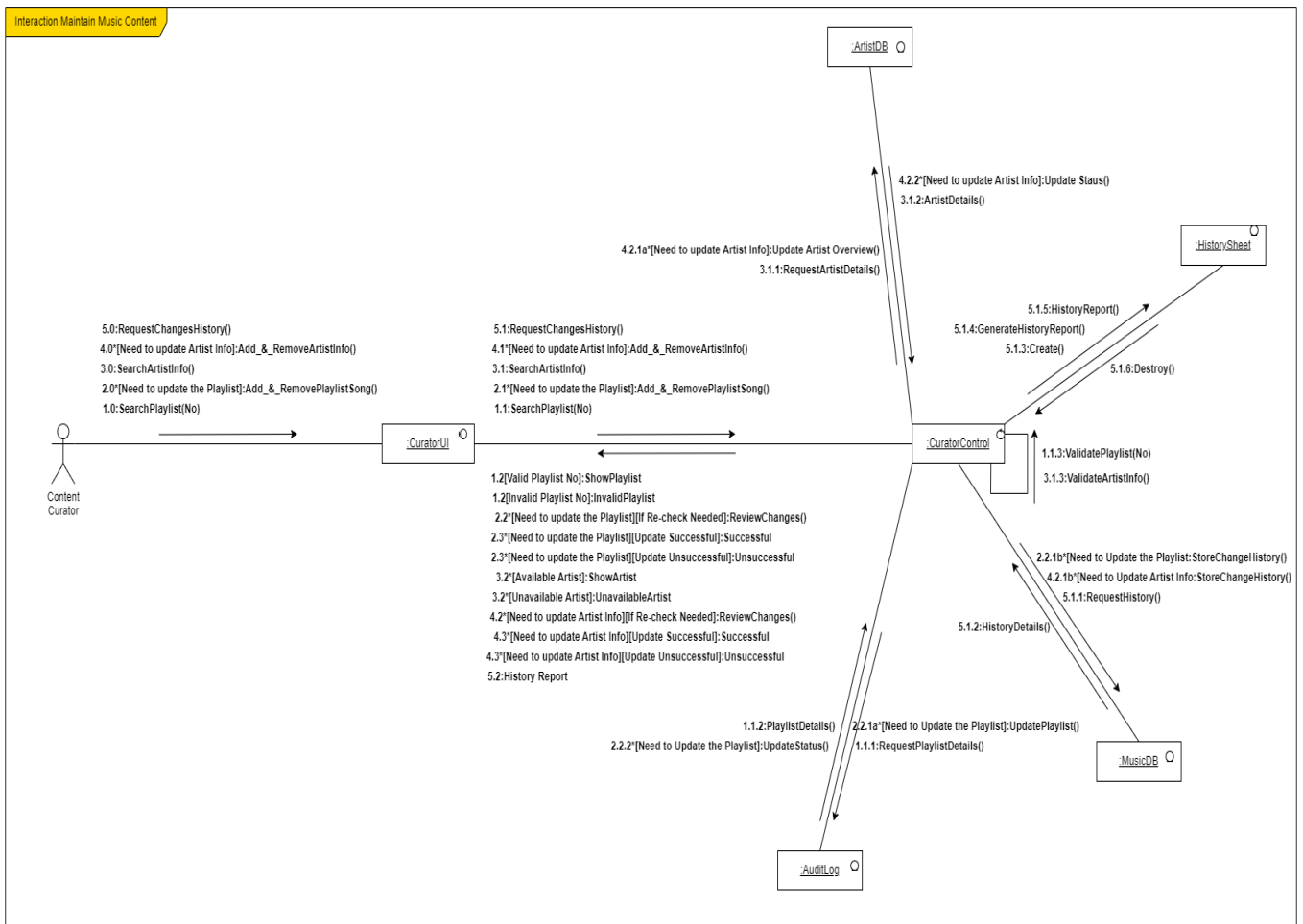
Number	03	
Name	Maintain music content	
Summary	Content Curator manages and curates the music content by adding, updating, and removing the necessary items.	
Priority	2	
Pre-condition	<p>The Content Curator is logged into the system by validating the credentials.</p> <p>The Content Curator has the necessary permissions to manage music content.</p>	
Post-Condition	The latest contents are added, and prevailing contents are updated or removed according to the trends.	
Primary Actor	Content Curator	
Trigger	The Content Curator has decided to make changes to the existing music content.	
Main Scenario	Steps	Action
	01	Grant access to the online music store by validating the credentials.
	02	Select the “Manage Content” option to approach the music content.
	03	Navigate to the music library of the music store.
	04	View the existing songs, playlists, and artist details.
	05	Search and identify where the changes should apply.
	06	Add new items and update or remove prevailing outdated items.
	07	Review the changes that are made by the curator.
	08	Save the changes and publish the latest content.
Extension	09	Generate reports about the changes that are made in the content.
	Steps	Action
	01. a	The system displays “Invalid Username/Password” if the credentials are invalid.
	05. a	If an unavailable song, album, or artist name is searched in the search bar, display “Invalid search”.
	07. a	“No Changes” is displayed as a message.
	08. a	Re-save the changes if the changes are not saved properly.
	08. b	If “Unsuccessful” message is displayed, retry to publish the content.

Sequence Diagram- Maintain Music Content



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Communication Diagram – Maintain Music Content



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Individual Contribution

No	Student Registration Number	Student Name	Contribution
01.	IT23241114	SASANKA W.G.S.G. S	-Sequence diagram and communication diagram for use case scenario "Process Orders" use case diagram "Admin"
02.	IT23344556	JAYAWICKRAMA W.T. L	-Sequence diagram and communication diagram for use case scenario "Add Albums" use case diagram "Music Artists"
03.	IT23336322	ABDULLAH M. Z	-Sequence diagram and communication diagram for use case scenario "Browse Music Catalog" use case diagram "User"
04.	IT23491526	KODITHUWAKKU P.R.M	-Sequence diagram and communication diagram for use case scenario "Maintain Music Content" use case diagram "Content Curator"