DCU School of Computing

Assignment Submission

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Programme: BSc in Computer Applications

Project Title: Systems Analysis

Module code: CA214

Lecturer: Rennat Verbruggen

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Declaration

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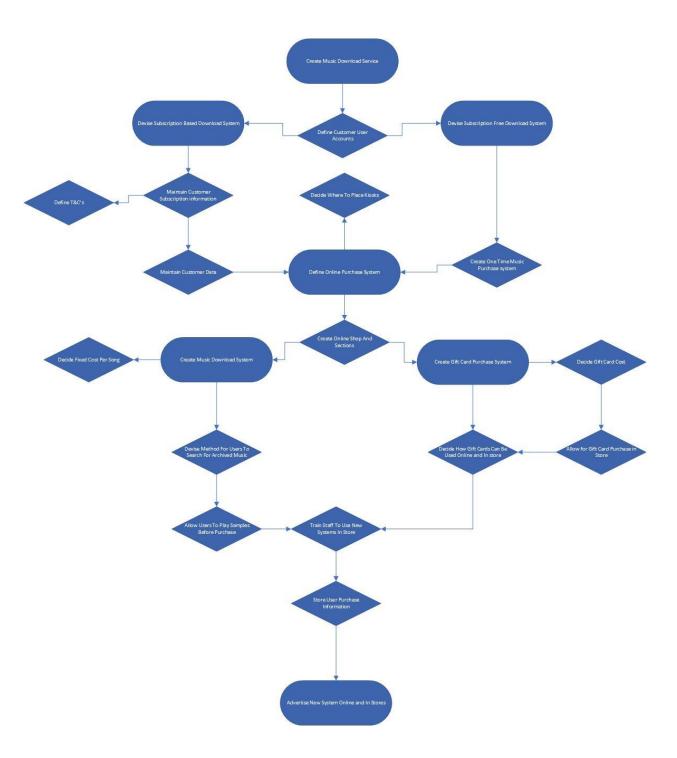
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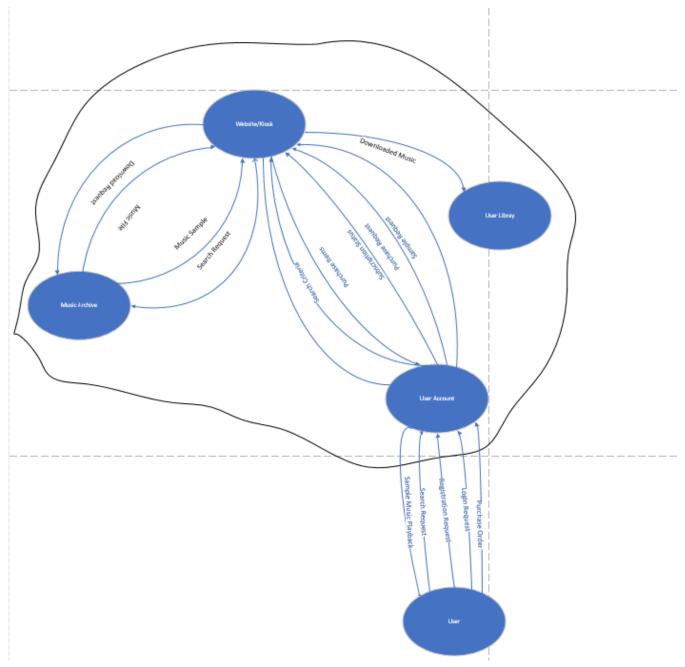
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I/me/my incorporates we/us/our in the case of group work, which is signed by all of us.

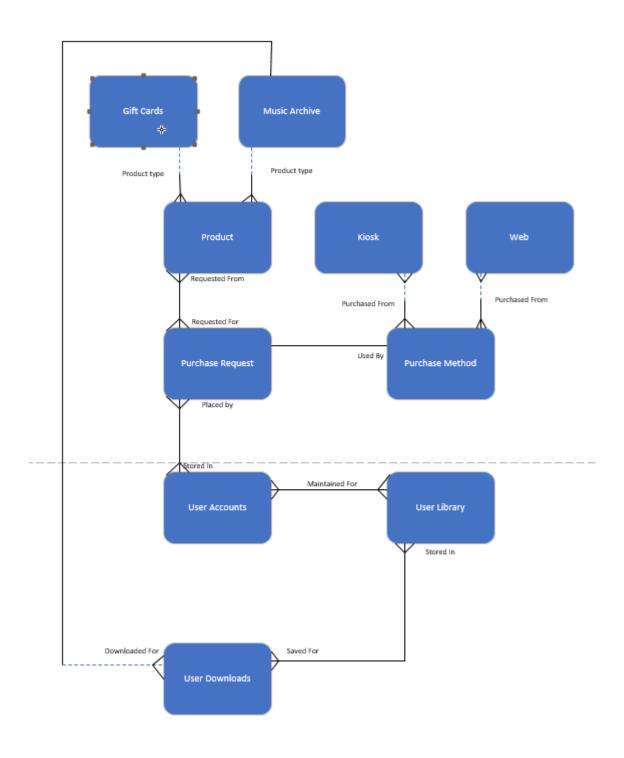
Signed: Manashe L. Chifungo

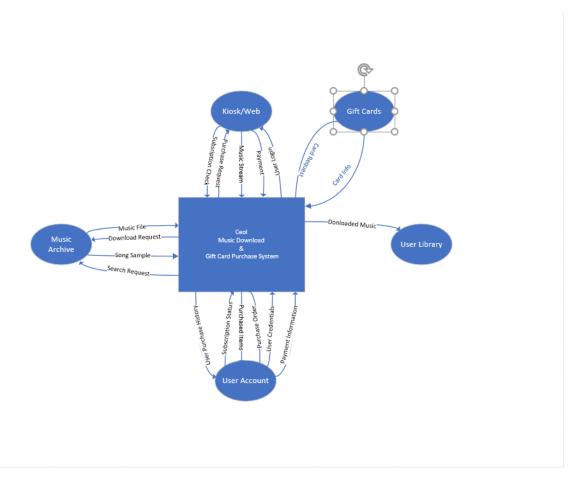
BAM



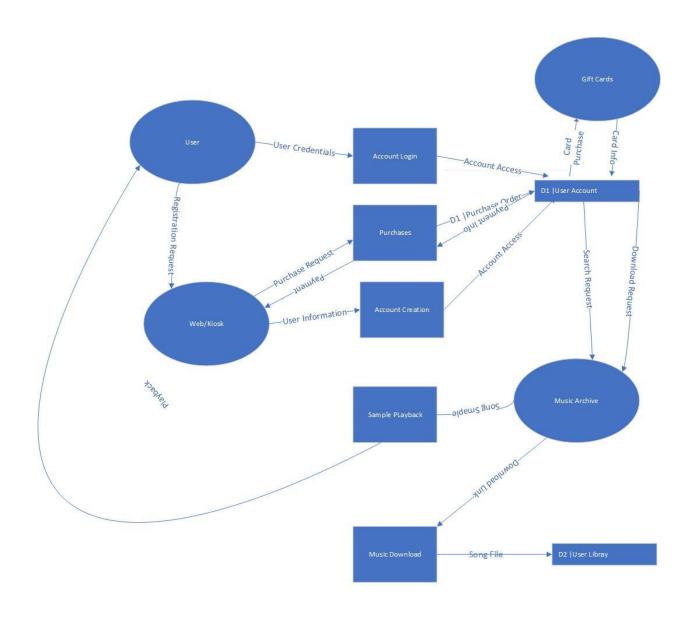


DFD





Context Diagram



DFD Level 1

Data Store(File Description)
Data Store ID: D2
Data Store Name: User Library
Description:
Stores Music Files after they are downloaded. Music files are downloaded from the Music Archive. Music Files can only be downloaded after a purchase is confirmed or as the User Account has an active Subscription. The contents of the User Library can be edited and controlled by the User.

		Entity D	escription		
Entity Name: U	Jser Account				
Description: De	efines the credentia	ls and purchases	of customers		
Attribute		Prim	ary Key	Foreign Key	Mandatory/ Optional
Account No.			Yes		Yes
User Name					Yes
Password					Yes
Payment Info					Yes
Subscription status					Yes
Purchase History					Yes
Download History					Yes
User Library No.				Yes	Yes
Must/Maybe	Either Or	Link Phrase	One And Only/ Maybe More	Entity Name	
Must		Stored In	One	User Library	
User			Access		
Customer			Read, Create, Delete		
Growth Rate: l	Jnknown		l		
Archiving: Use	r Accounts should b	e backed up ever	y month incase (	of system errors	

Process Description
Process ID:
Process Name: Item Selection
Description:
To create a purchase order a customer must first chose which songs or gift cards are require. Search requests are made to the system and retrieve the relevant product information which is then palaced into the customers basket before the purchase transaction has occurred.

Process Description
Process ID:
Process Name: Purchase Transaction
Description:
When the customer has entered the desired items into their basket the purchase transaction can then take place. For music file the system will check if the customer's user account has an active subscription, allowing for instant download or otherwise, the price of each song becomes part of the transaction. The relevant payment information is taken from the customer Account, the transaction occurs, and the cost is subtracted from their balance