Declaration on Plagiarism

Assignment Submission Form

This form must be filled in and completed by the student(s) submitting an assignment

Name(s): Eoin Holland

Programme: CA

Module Code: CA214

Assignment Title: SSADM

Submission Date: 10 - 12 2017

Module Coordinator: Renaat Verburgen

I/We declare that this material, which I/We now submit for assessment, is entirely my/our own work and has not been taken from the work of others, save and to the extent that such work has been cited and acknowledged within the text of my/our work. I/We understand that plagiarism, collusion, and copying are grave and serious offences in the university and accept the penalties that would be imposed should I engage in plagiarism, collusion or copying. I/We have read and understood the Assignment Regulations. I/We have identified and included the source of all facts, ideas, opinions, and viewpoints of others in the assignment references. Direct quotations from books, journal articles, internet sources, module text, or any other source whatsoever are acknowledged and the source cited are identified in the assignment references. This assignment, or any part of it, has not been previously submitted by me/us or any other person for assessment on this or any other course of study.

I/We have read and understood the referencing guidelines found at

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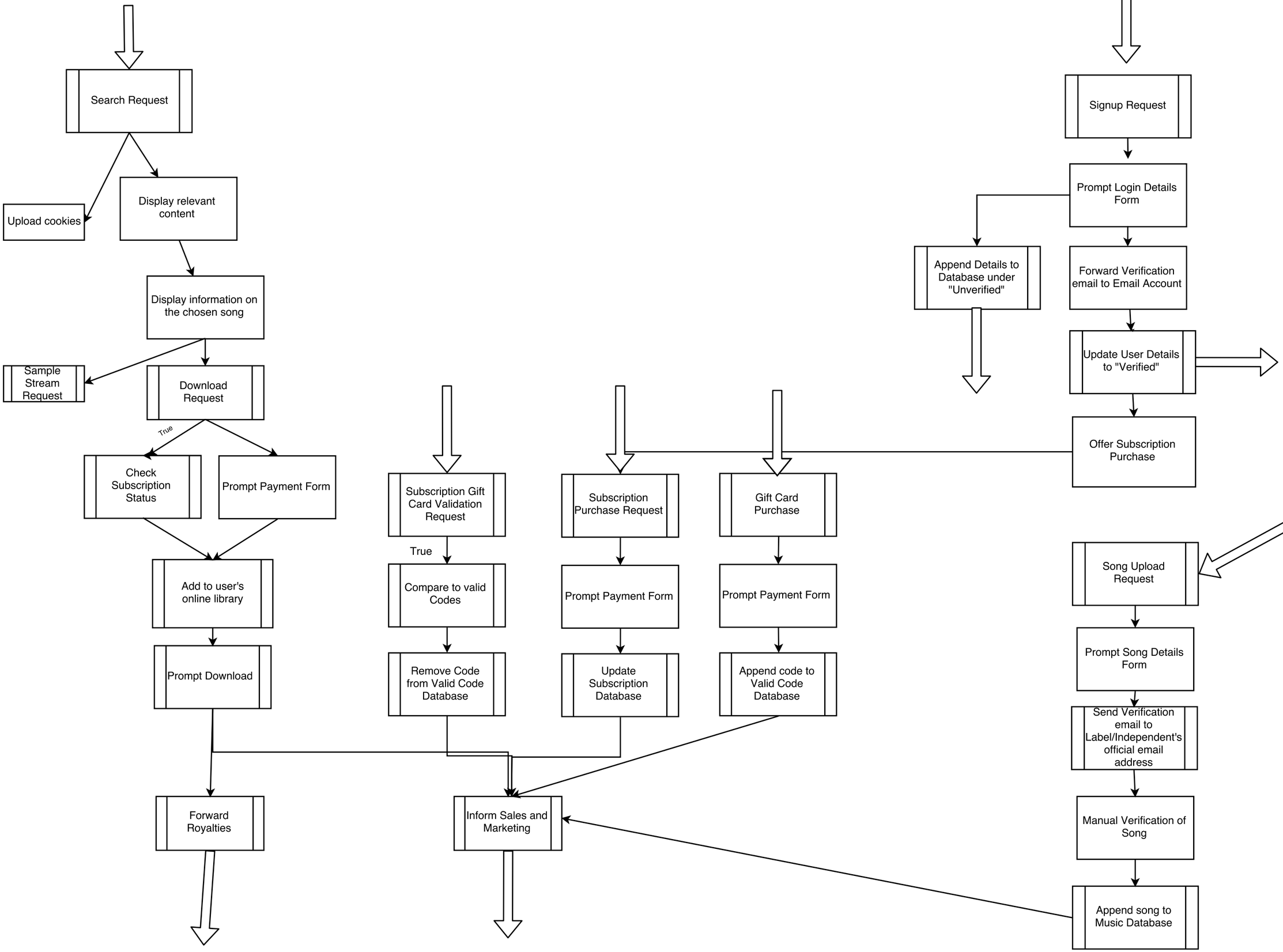
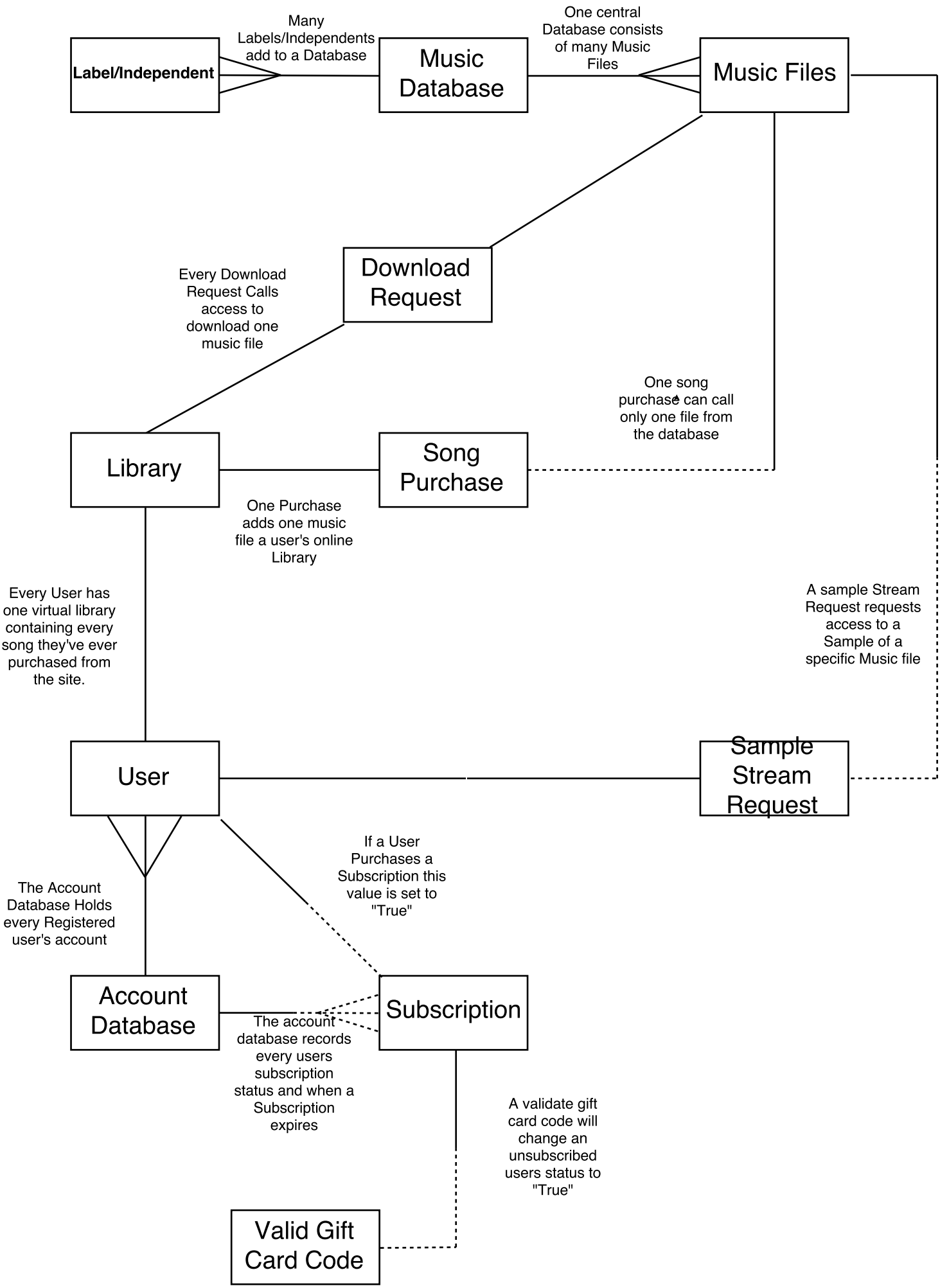
and/or recommended in the assignment guidelines.

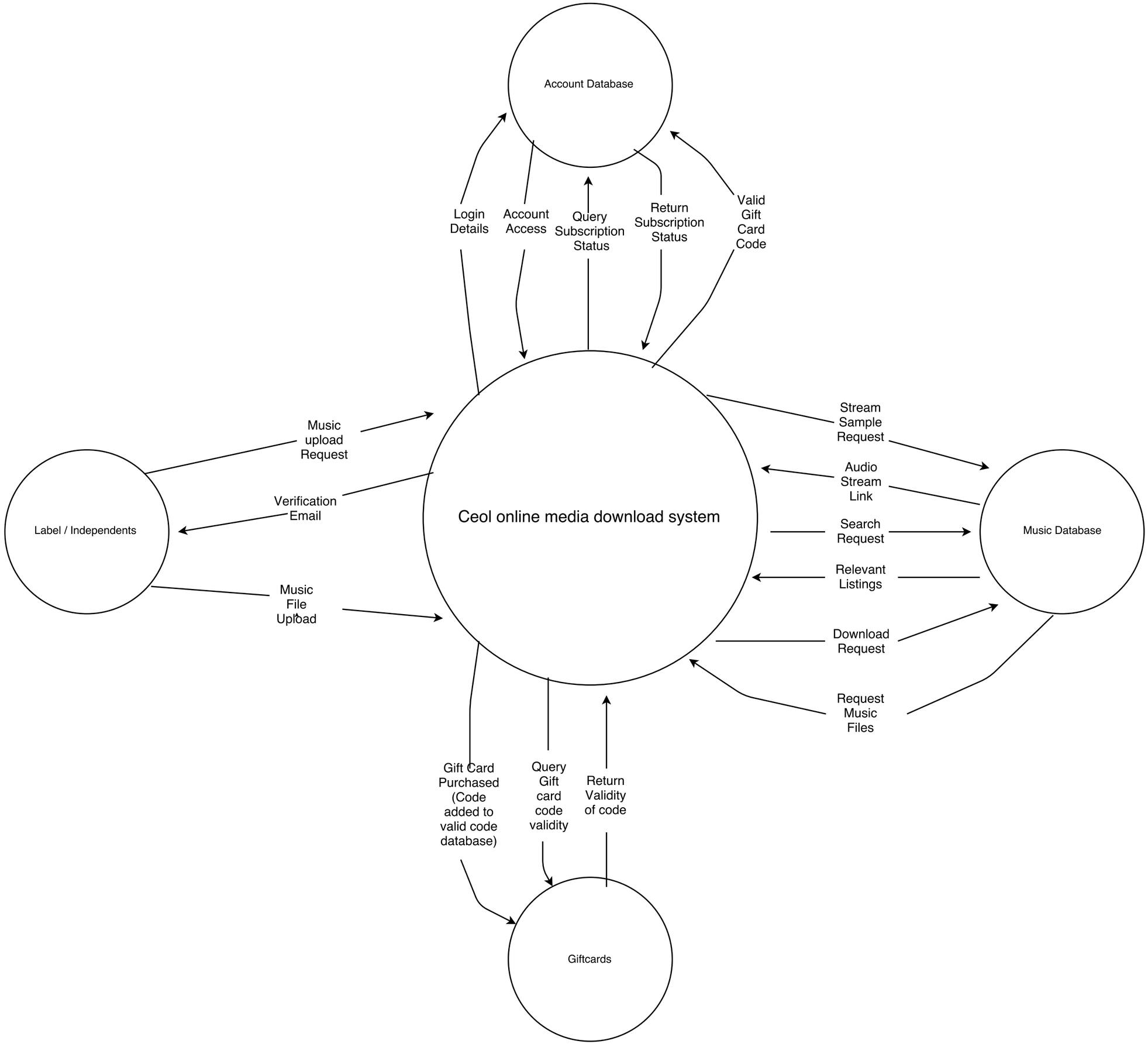
Name(s): _____*Eoin Holland*_____ Date: _**10 - 12 - 2017**_____


Search Request
Upload cookies
Display relevant content
Display information on the chosen song
Sample Stream Request
Download Request
True
Check Subscription Status
Prompt Payment Form
Add to user's online library
Prompt Download
Forward Royalties
Subscription Gift Card Validation Request
True
Compare to valid Codes
Remove Code from Valid Code Database
Subscription Purchase Request
Prompt Payment Form
Update Subscription Database
Gift Card Purchase
Prompt Payment Form
Append code to Valid Code Database
Inform Sales and Marketing
Signup Request
Prompt Login Details Form
Append Details to Database under "Unverified"
Forward Verification email to Email Account
Update User Details to "Verified"
Offer Subscription Purchase
Song Upload Request
Prompt Song Details Form
Send Verification email to Label/Independent's official email address
Manual Verification of Song
Append song to Music Database

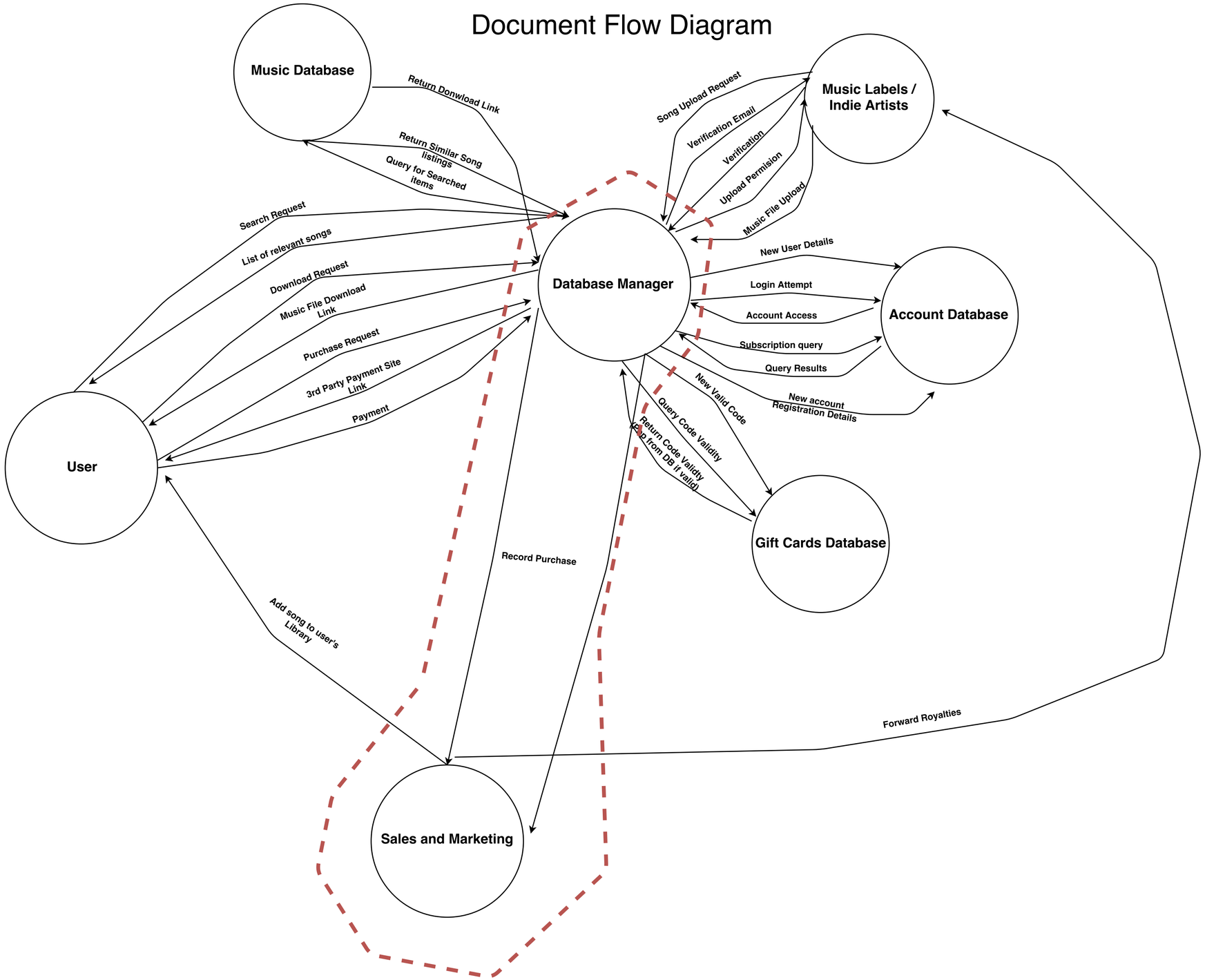
Logical Data Model



	User	Library	Account DB	Valid Gift Card Code	Song Purchase	Download Request	Music DB	Label / Independent	Music Files	Sample Stream	Subscription
User		TRUE	TRUE							TRUE	
Library	TRUE				TRUE	TRUE					
Account DB	TRUE										TRUE
Valid Gift Card Code											TRUE
Song Purchase		TRUE							TRUE		
Download Request		TRUE							TRUE		
Music DB							TRUE		TRUE		
Label / Independent							TRUE				
Music Files					TRUE	TRUE	TRUE			TRUE	
Sample Stream									TRUE		

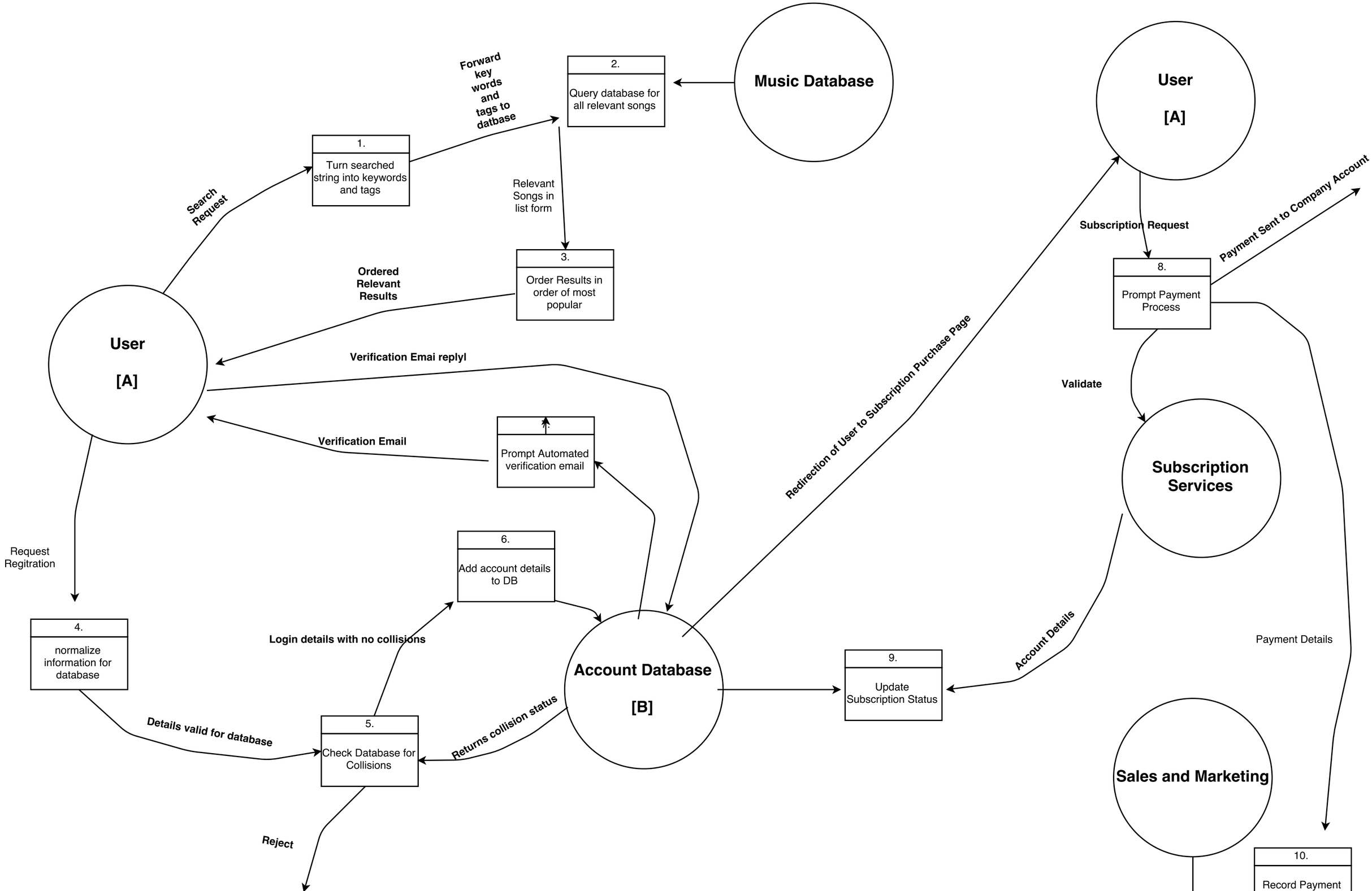

Account Database
Login Details
Account Access
Query Subscription Status
Return Subscription Status
Valid Gift Card Code
Music upload Request
Verification Email
Label / Independents
Music File Upload
Ceol online media download system
Stream Sample Request
Audio Stream Link
Search Request
Relevant Listings
Download Request
Request Music Files
Music Database
Gift Card Purchased (Code added to valid code database)
Query Gift card code validity
Return Validity of code
Giftcards

Document Flow Diagram



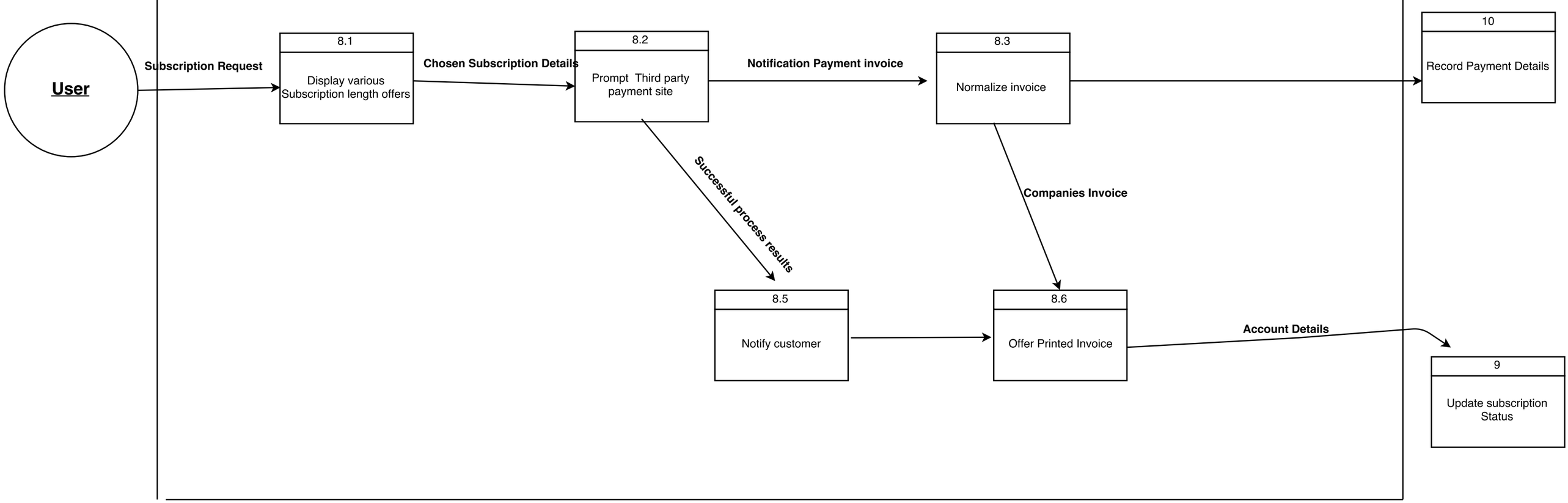
(ALL DATA IS D3)

Physical Level 1

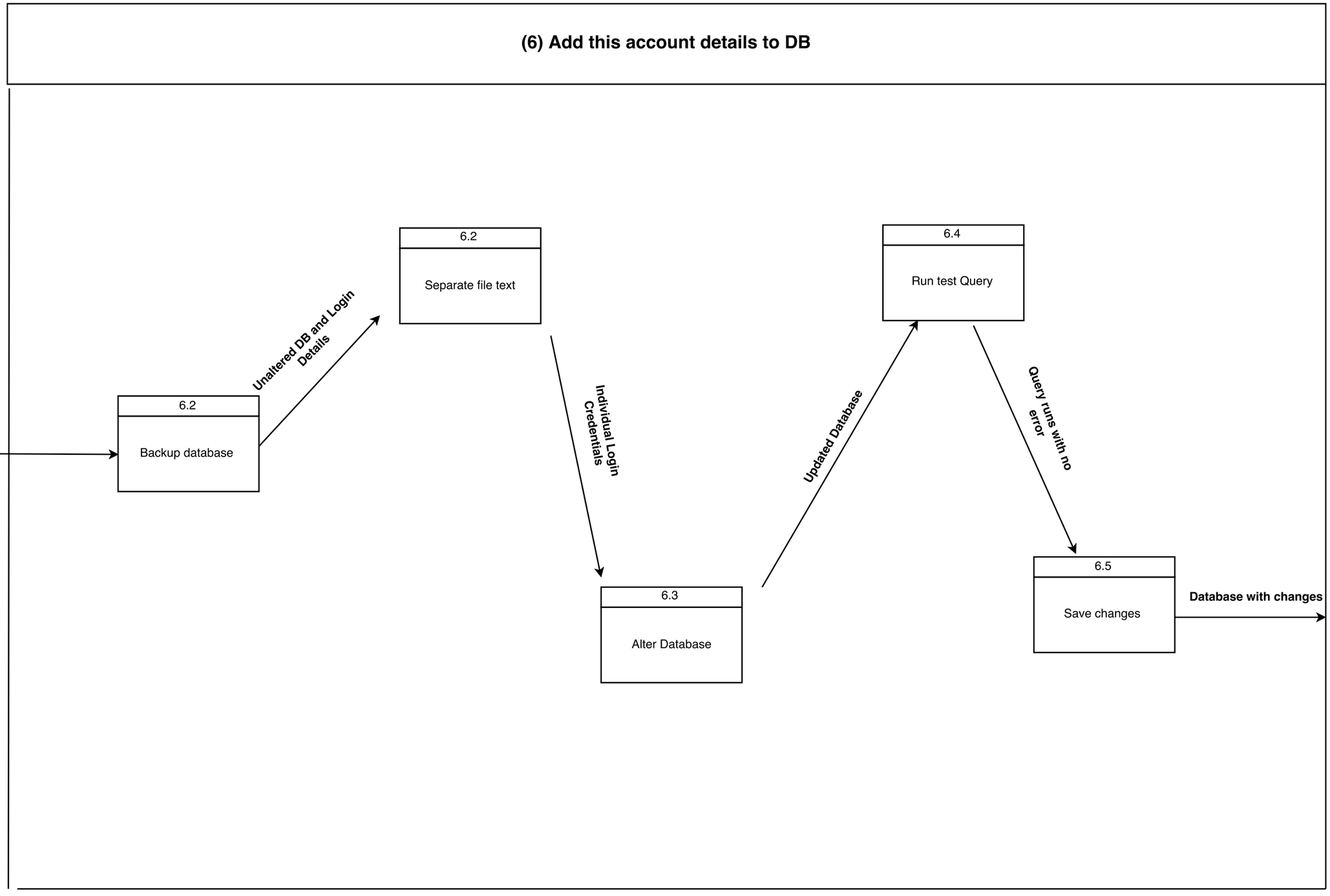


Physical Level 2

(8) Prompt Payment Form



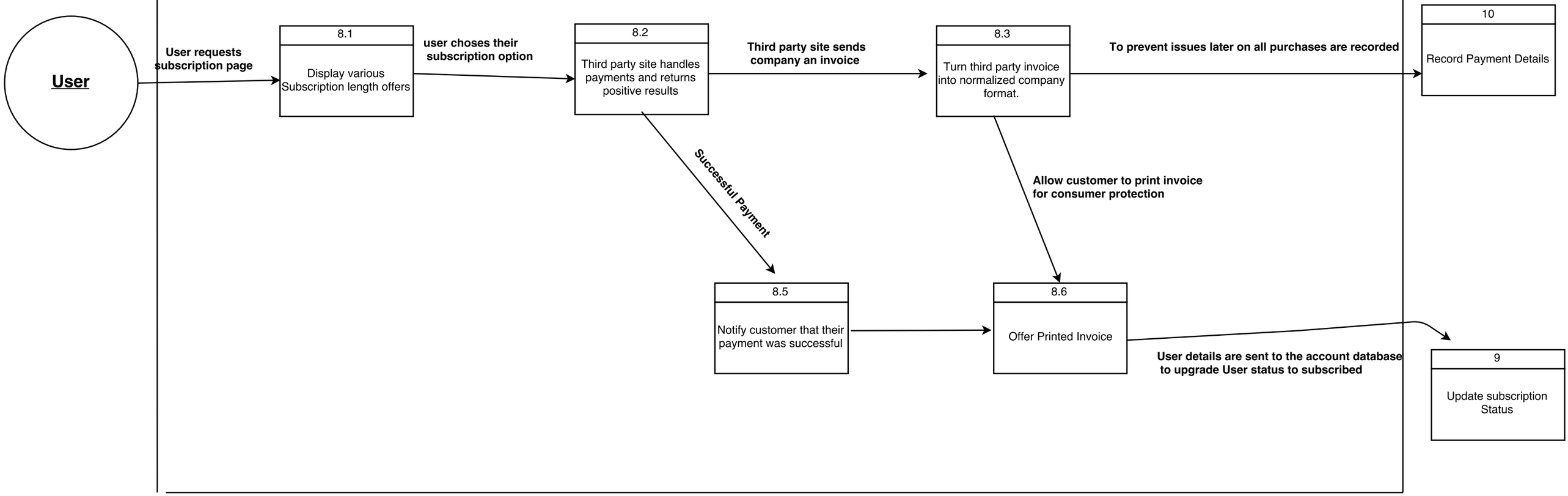
Physical Level 2



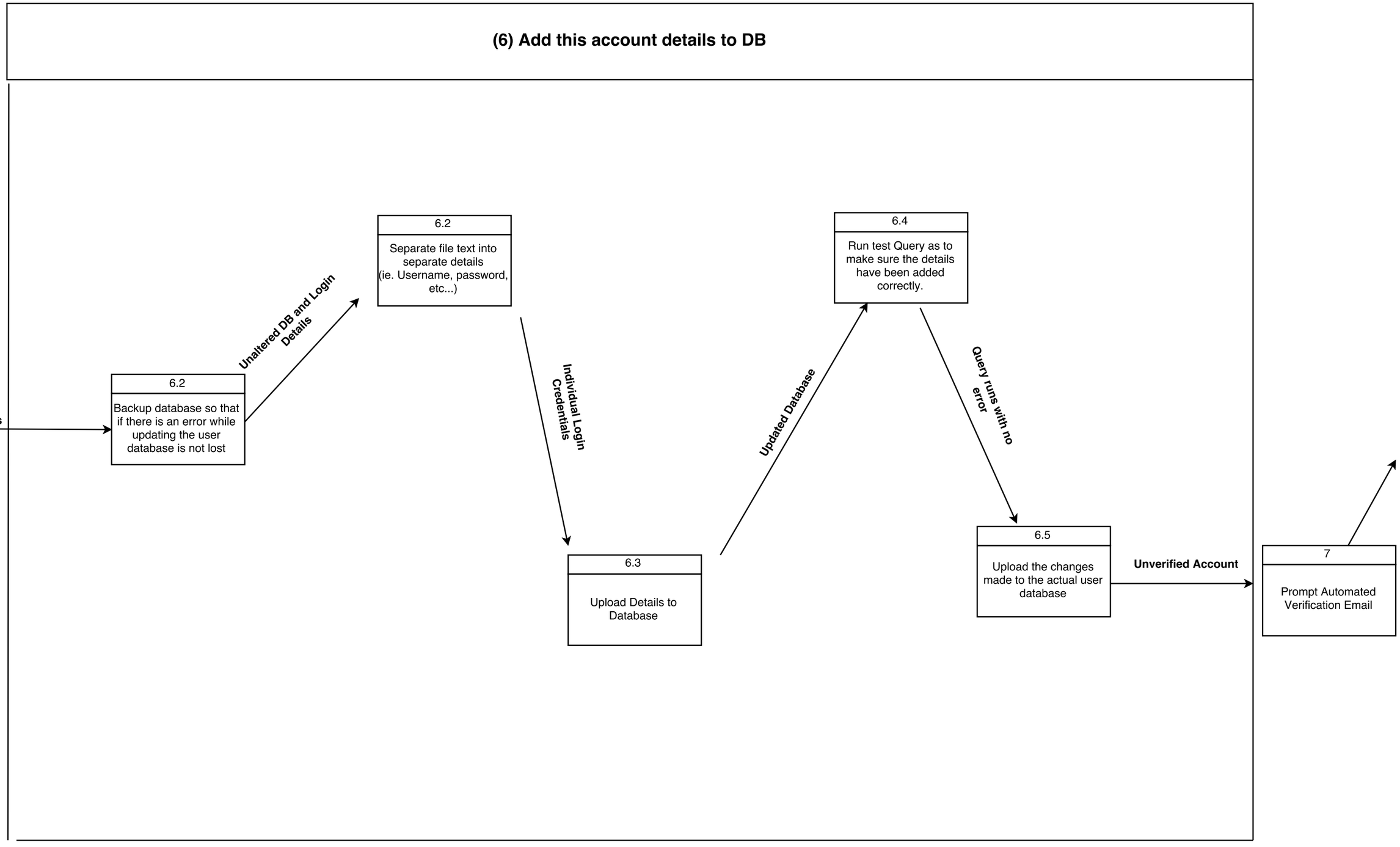
Physical ~~Level 2~~ - Logical

Text

(8) Prompt Payment Form



Physical Level 2 - Logical



Function 1: Add this account details to DB

This function is used in order to add a new user's account details to the database without any irreversible damage to the database itself. First the database is backed up so that if there is somehow an error, (despite there being methods to prevent this) mistakes can be undone. Then the encrypted txt file that carries important private login details is unencrypted and normalized into a form that will work in the database. Then the user's login settings are appended. In order to double check no errors have been made the database is saved and a test query is ran to make sure the new users details have actually been appended. If there is an error then the backup is restored and the user is asked to fill in their details again.

Function 2: Prompt Payment Form

This function first lets the user choose which subscription suits them. Then a third party payment site (eg. xsolla) is used to carry out all of the payments securely and for convenience. If the payment is successful, then the third party invoice is converted into Ceol's personalized invoice format. Then the customer is notified their payment was processed successfully and they are given the chance to print their invoice. Then their specific details are forwarded off to another process to alter the "Subscribed" status to "True" in the Account Database, so that the user can access all subscriber benefits.

Entity Description

Name	Entity ID	Description
Account Database	B	This entity is where every user's login credentials are stored. Altering this allows us to add new users or delete accounts if requested. Subscription stastus is also recorded in this database.

Dataflow

Data Flow Title	Origin	Destination	Data content	Comments
Forward key words and tags to database.	1 - (Turn searched string into keyword and tags)	2 - (Query database for all relevant songs)	Array of tags and keywords generated by breaking down the original string.	
7 - (Prompt automated verifiacation email)	[B] Account Database	[A] User	Email verification link.	

Dataflow

User				
Description: This is the details assigned to logged in user.				
Attribute		Primary Key	Foreign Key	Mandatory/ Optional
Account no.		X		Mand
UserName			X	Mand
Password			X	Mand
Subscription Status			X	Mand
Library no.		X		Mand
Region				Opt
Must/Maybe	**Either/ Or**	**Link Phrase**	**One and only/ maybe more**	**Entity Name**
Must			One	Account DB
User			Access	
User			Read, Write, Delete	