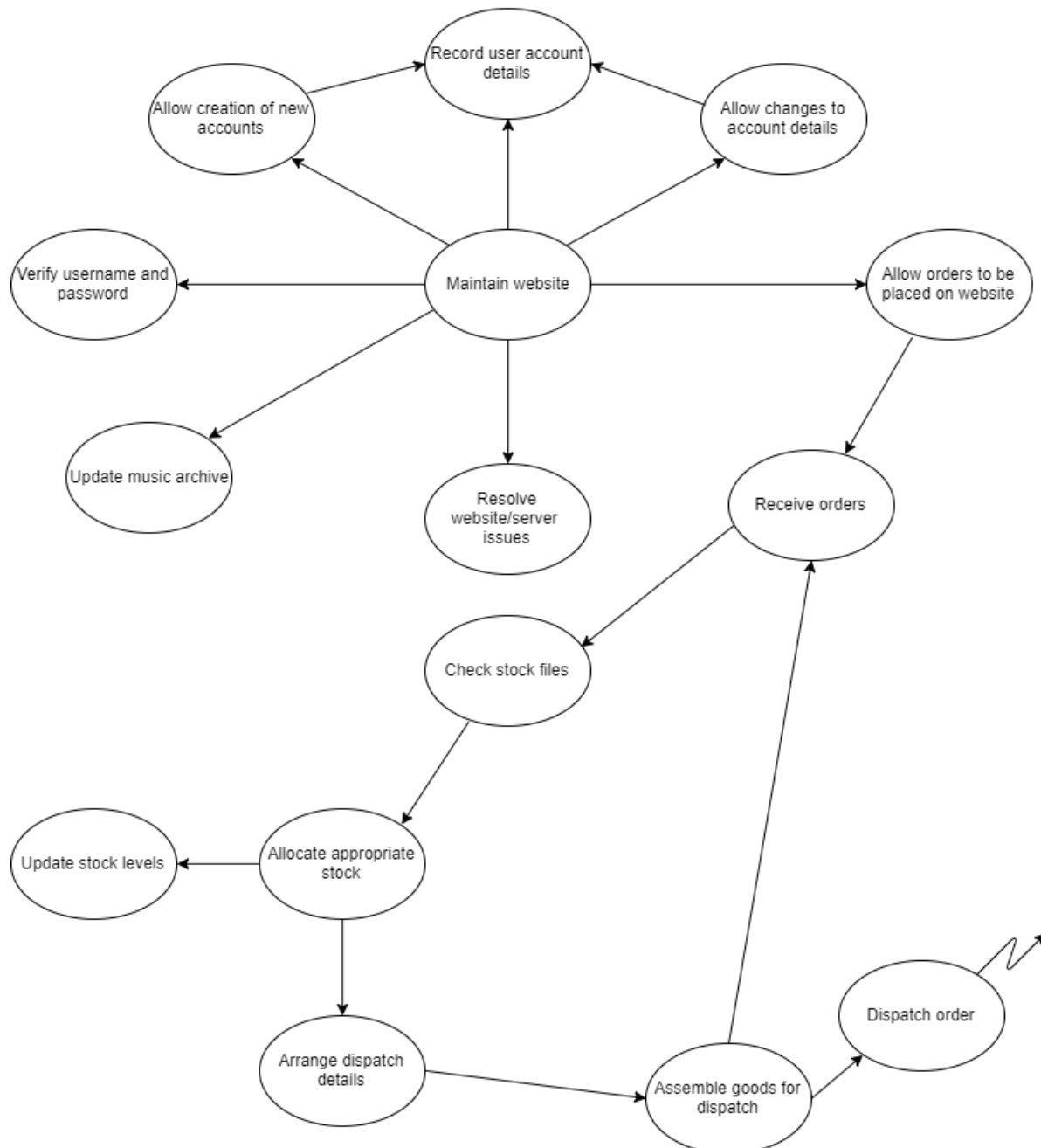
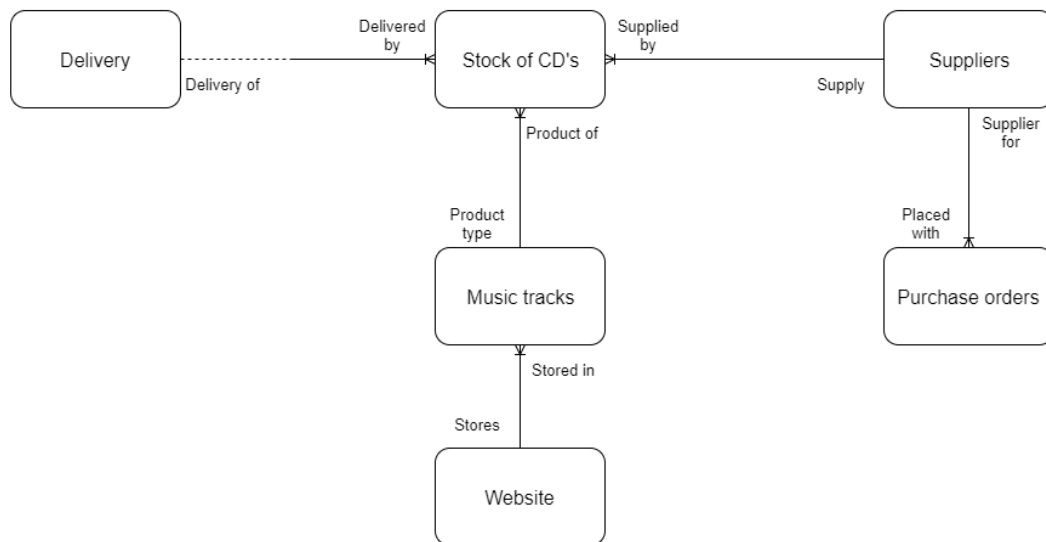


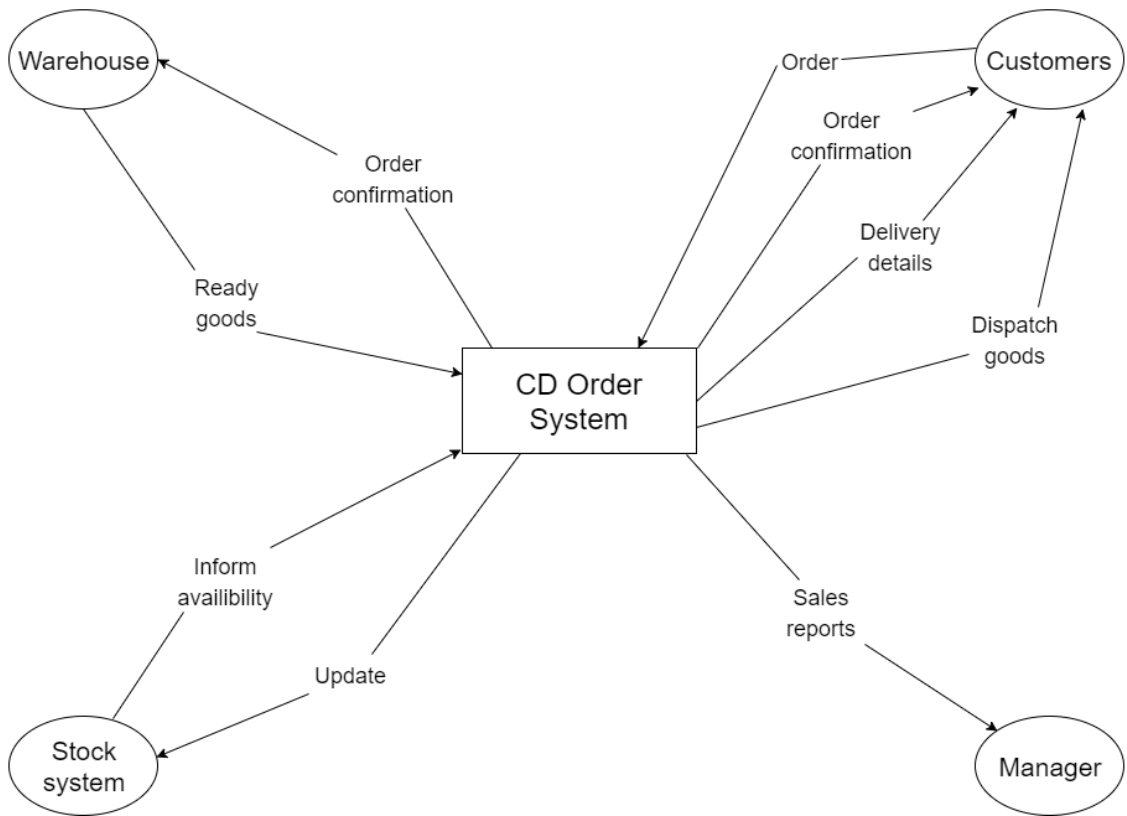
Name: Uzair Ali (15434842)
Programme: Computer Applications and Software Engineering
Module Code: CA214
Assignment Title: SSADM
Submission Date: 9/12/17
Module Coordinator: Renaat Verbruggen

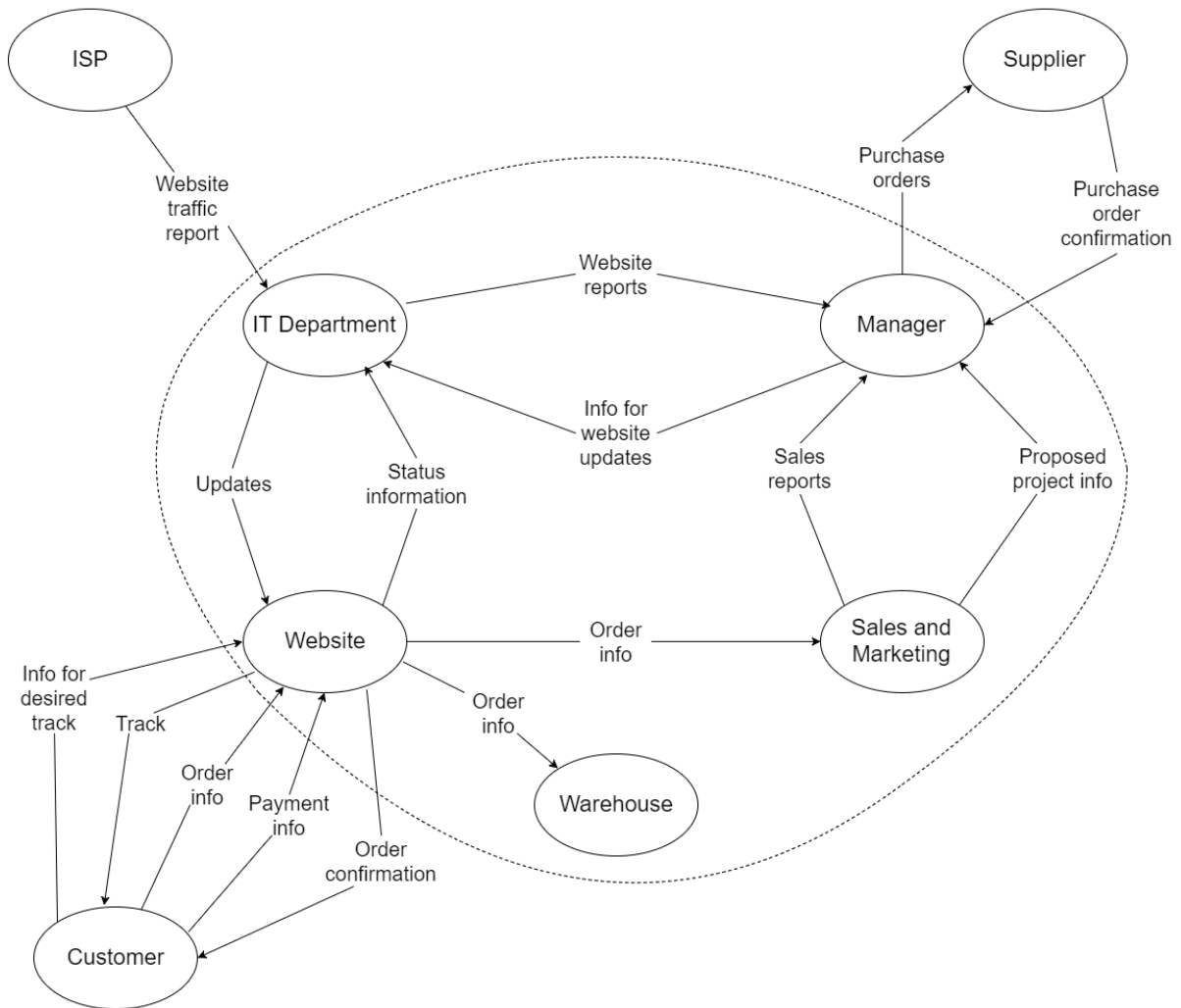
I/We declare that this material, which I/We now submit for assessment, is entirely my/our own work and has not been taken from the work of others, save and to the extent that such work has been cited and acknowledged within the text of my/our work. I/We understand that plagiarism, collusion, and copying 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 <http://www.dcu.ie/info/regulations/plagiarism.shtml>, <https://www4.dcu.ie/students/az/plagiarism> and/or recommended in the assignment guidelines.



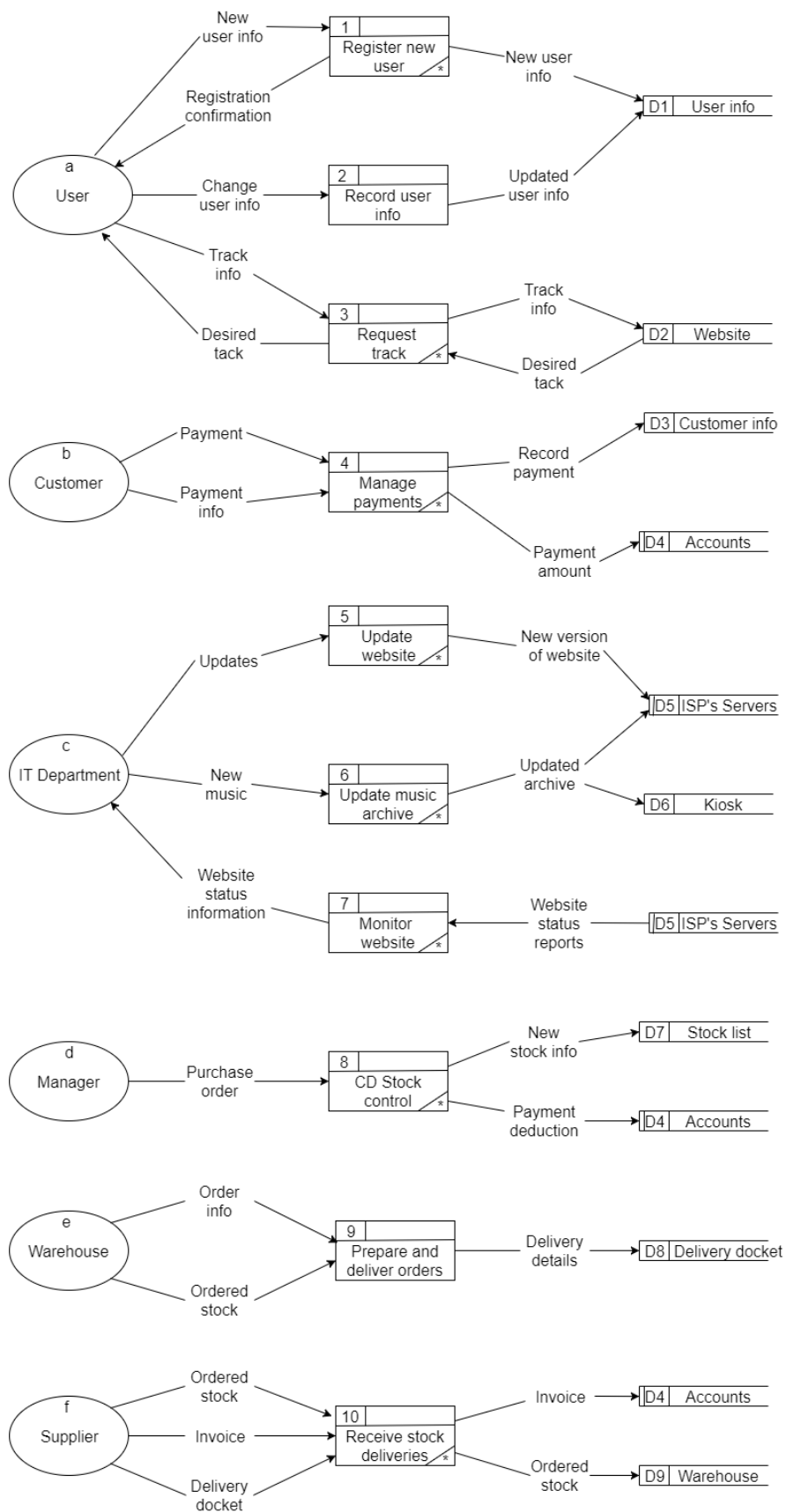






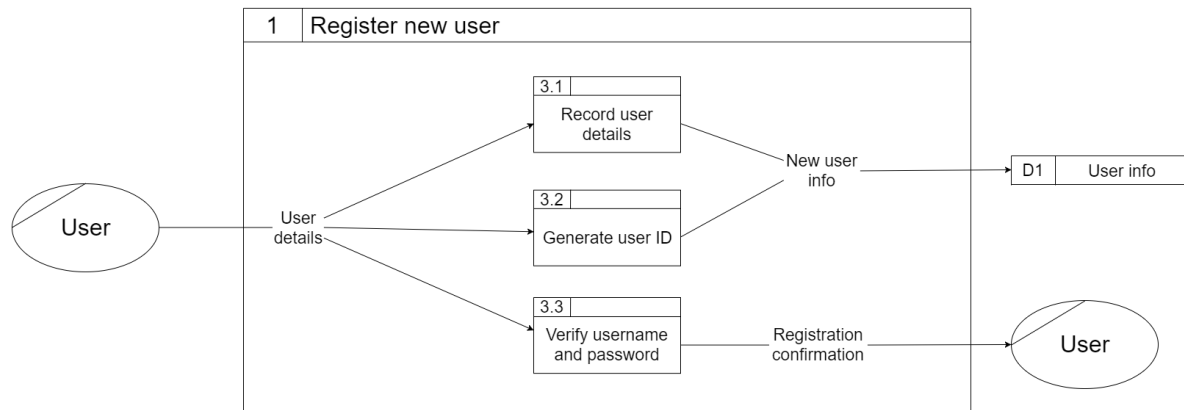
DFD - Data Flow Diagram

Physical Level One DFD



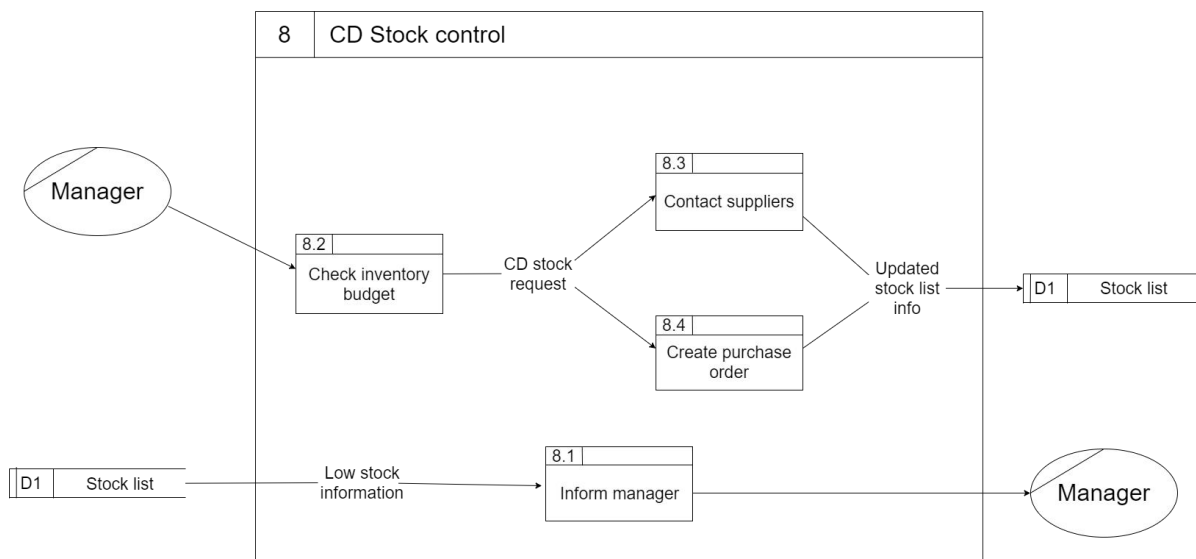
DFD - Data Flow Diagram

Physical Level Two DFD - 1



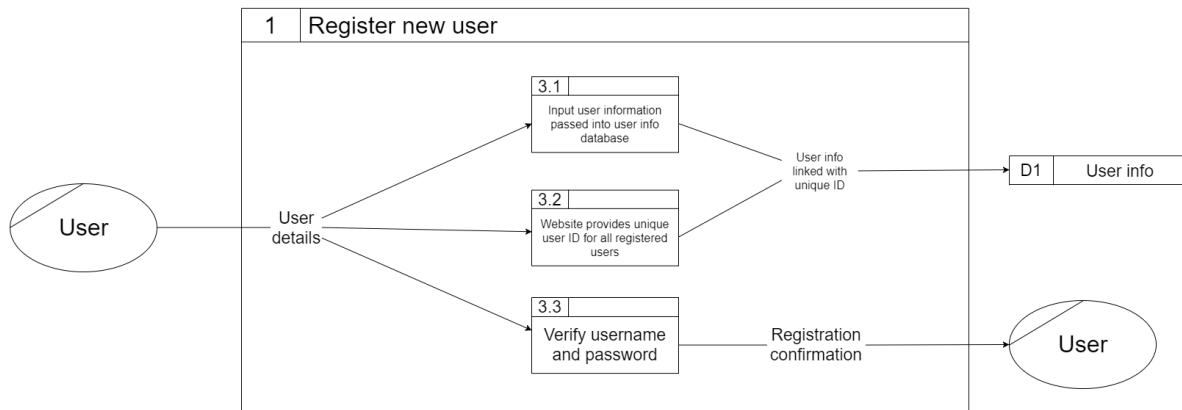
DFD - Data Flow Diagram

Physical Level Two DFD - 2



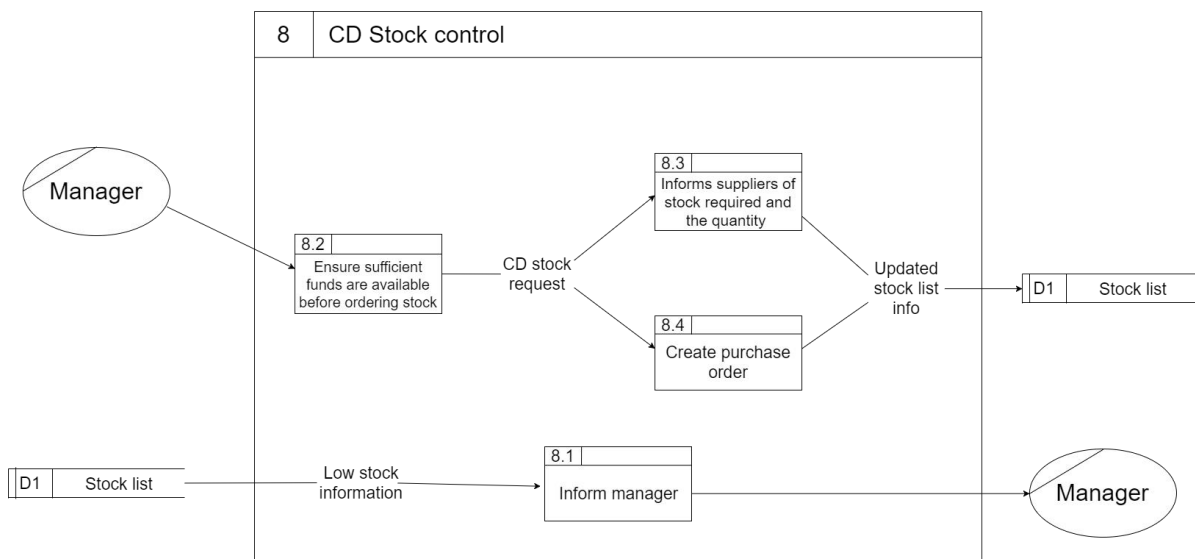
DFD - Data Flow Diagram

Logical Level Two DFD - 1



DFD - Data Flow Diagram

Logical Level Two DFD - 2



Function 1 – Generate User ID

START

RECEIVE new account request

IF account request authorised

 GET most recently assigned user ID

 INCREMENT recently assigned ID by 1

 RETURN new user ID

END.

Function 1 – Verify Username and Password

START

RECEIVE login request

CHECK username

 IF username IS valid

 CHECK associated password

 IF associated password EQUALS received password

 ALLOW ACCESS

 RETRIEVE user account information

 DISPLAY (user account information)

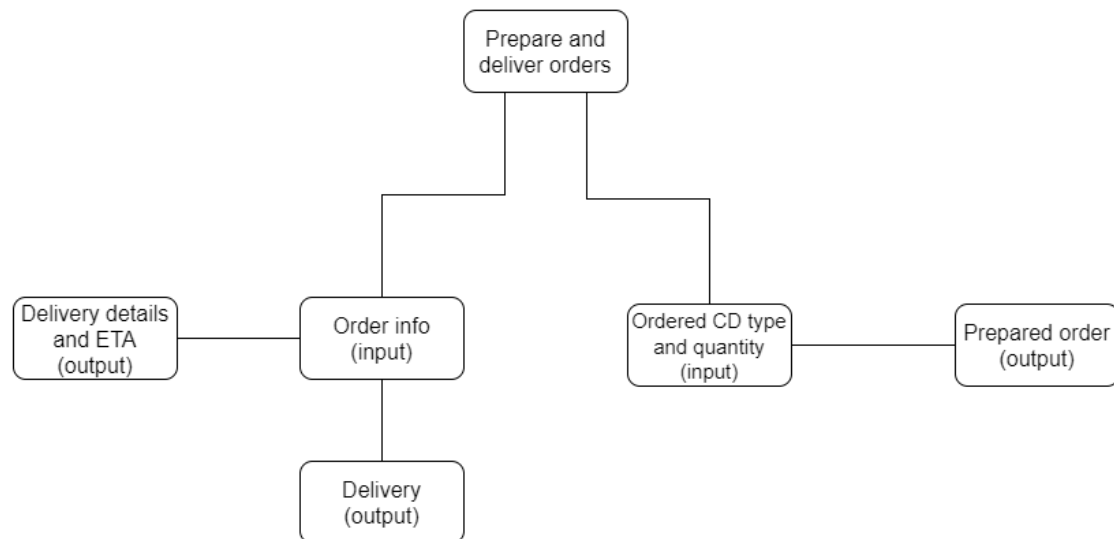
 ELSE

 DISPLAY (“Incorrect username or password”)

 ELSE

 DISPLAY (“Incorrect username or password”)

END.



Process Description 1 – CD Stock Control

START

IF stock level IS low

 SEND alert to manager

 DISPLAY ("Low stock level", stock type, quantity)

CHECK inventory budget

IF funds GREATER THAN required funds

 Contact supplier

 CREATE purchase order

 UPDATE stock list

END.

Process Description 2 – Receive Stock Deliveries

START

CHECK delivery docket

IF items on docket match items delivered

SIGN delivery docket

RECEIVE copy of delivery docket

ARCHIVE copy of delivery docket

STORE delivered items in warehouse

END.

Entity Description			
Entity Name: Music track			
Description: Digital file containing information for music tracks listed on website			
Attribute	Primary Key	Foreign Key	Mandatory/Optional
Track ID	Yes	Yes	M
Track release date			O
Artist name			M
Artist ID			M
Track description			O
Track length			M
Album name			O
User		Access	
Subscriber		Listen	
IT Department		Listen, Upload, Edit, Delete	
Archiving Music tracks should be uploaded to the ISP's servers once all attribute details have been finalised			

Data Store
Data Store ID: D7
Data Store Name: Stock list
Description: <p>Contains information for all stock of CD's available and unavailable. Primary Keys are track ID's. When stock falls below a specified level, an alert is sent to the manager to inform them to order more stock of that type. Once more stock is ordered, the stock list is updated. Stock list is also updated when a purchase is made on the website. The track ID for the purchased track is located in the stock list and it's quantity is decremented by the number of CD's ordered for that track ID.</p>