

**Deliverable 1:**

**Requirement and Design Document**

**Software Engineering 3 Assignment Part 1**

Completed By:

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## Course Code: DT228

## Year: 3

## Date Due: 4 – 11 - 2018

## Date Completed:

# The application to be designed

The web application that I am designing is an online music ordering / information website. The functionality of this website is to display the information about the products it has on offer to sell to various customers who have such interest in such items, as well as reviews of each of the product that has been bought by various customer.

At basic glance, that is all the website has to offer to a non-registered user. A non-registered user has the option to register within the system to obtain access to some of the extended features the website has to offer. Once registered, the user has the choice to retrieve their own version of the products in offer in numerous different shapes or forms, depending on their specific area of interest. If an error is made in purchasing the item, they have a time limit to cancel their item they had previously wished to purchase.

They also have the choice to modify their account details if they wish to do so, as long as the identifier does not clash with someone else details. Through all the changes and transaction, there will be confirmation of the details of the account, with an error being displayed if one does pop up with the system.

When getting access to the information, the products details are stored in the database associated with the website application which can be only accessed by the website methods and cannot be directly accessed by the user. In this way, we can apply an object-oriented design of an decoupled website application.

All the details of this application will be furthered explained in several different ways, such as a requirement model using a UML based approach, an analysis model using a detailed class diagram which will show the structural model and a sequence diagram which displays the behavioural model. At the end there will be a design model to display a diagram of all the systems the application use to talk to each other in the design of the online music application.

# Potential Actors:

Non-registered user

Registered user

IT admin

# Requirements for the document

Requirement, analysis and design models

The requirement model to have a UML based approach with three+ use cases with extended narratives / descriptions along with one+ use case diagrams to be provided alongside them.

The structural model to include a detailed class diagram containing all the fields, methods, parameters and associations.

The behavioural model to have one+ sequence diagram for every three+ use case diagrams

Have a section where there is a link to a YouTube video explaining all the features of the application.