CA specifications for Software engineer

The design will be an online music website

# The specifications

* A person should be able to search through all the products in different ways
* In order to purchase, the person must have an account
* Once logged in, they can modify their details
* Once they purchased an item, they should be able to cancel the item
* Once they are ready to pay for everything, the list, their price and the total should be shown at the end

# The different ways to search for an item (add as I go along)

By search bar (may implement a dictionary)

By a dropdown list of keywords associated with them

By using the unique id associated with that item

By navigating to that item

This assignment requires you to identify a simple web application and progress the system through its analysis and design phases using an object oriented approach. An implementation of the design using Java Enterprise Edition as defined below is also required.

Notes:  Identify a project from an application area that you are familiar with - e.g. if you have an interest in palaeontology, you could design and implement a web application that allowed users to register and login to a web site, they could browse/read articles relating to palaeontology, post messages/comments/articles, send messages to specific users etc. or do whatever is appropriate for the application domain.

Deliverable 1 – Requirements & Design Document (due date: 4/11/18)  You must submit a single document containing your requirements, analysis and design models.  The system requirements in your document should be clearly stated using a UML based approach - a set of use cases (at least 3) with extended descriptions / narratives and one or more use case diagrams should be provided.  The structural model in your document should consist of a detailed class diagram showing class attributes, class operations with arguments and return types and class associations.  The behavioural model in your document should consist of at least 1 sequence diagram for each of the three use cases described in the requirements model.  Recorded Presentation  You must use the following website (or similar) to record a 5 minute (max) presentation of your models. The purpose of this presentation is to show that you fully understand the models. To this end, you should present each diagram and talk through why it is modelled the way it is e.g. “these two classes have a unidirectional one to many association because…” http://www.screencast-o-matic.com/

1st Deliverable

Use Cases / Diagram 10%

Class Diagram 10%

Sequence Diagrams 15%

Recorded Presentation 5% = 40% \* 37% = **14.8%**

What we need:

A actor representing the registered user and non-registered users

A use case representing the website functionality

A visual representation of the functionality of everything the website can do