AIT Project Proposal

# An introduction to the project subject matter:

As part of my Applied Internet Technologies Module at the National College of Ireland, I am required to choose an area of interest to develop a web application using the ASP.NET MVC framework. The Area of Interest that I have chosen for my project is gaming, the reason I chose this topic is that I know a lot about gaming as it is a hobby of mine and it would therefore make the project even more interesting to do.

In my gaming project, content will be generated for a particular topic. This content will be stored in a relational database. The Web Application will exhibit functionality to allow some of the presented information (games, game genre, date of release, developer) to be edited. It will also be possible to update the database with the edited information and to delete information from the database.

# The goals of the project:

The goal of the project is to create a Web Application using ASP.NET MVC framework which will include the use of a relational database and include some a decent amount of functionality, to include updating, editing, and deleting information.

# The strategy that will be employed to meet the stated project goals:

The strategy that I will employ to create my web application will include doing research and practicing ASP.NET MVC and how I should use it to create my application. I will do this by practicing on Visual Studios and attending my AIT classes, where I will get valuable advice about what I need to do with my project in order to achieve high marks. I will also refer to the following website http://www.asp.net/, as it contains examples of ASP.NET projects which will come in handy throughout the creation of my web application.

# The key characteristics of your project in terms of functionality:

The Functionality that I hope to include as part of my application is to store information related to gaming into multiple tables (Games, Developers, Suppliers, and Customers), this will allow me to Create, Edit, Update, and Delete information about the games, the development company behind the creation of each of the games, and Customers and Suppliers.

My web application will also include Ajax functionality to create more interactive webpages for the user to use, such as: ( an Ajax Search function to search a game from the database by typing its name into the search box).

# A list of the project deliverables that will be submitted on project completion:

The following is the list of deliverables for my web application:

Create an ASP.NET MVC Web Application Project. Modify the **\_Layout.cshtml** view template to personalise your web-site.

(5 marks)

Create a set of classes that will be responsible for implementing a Data Access Layer that will to communicate with a database you design.

a. You should use the *Entity Framework* Object Relational Mapper (ORM) and a *Code- First* approach when creating entity classes.

b. Your database should consist of at least 4 tables populated with data.

c. Write a *Seed* method that the *Entity Framework* automatically calls after creating the database in order to populate it with test data.

(25 marks)

Create a set of pages to provide a user interface for the display of information contained in your database. Also, create a set of pages to provide a user interface for the insertion, update, and deletion of information contained in your database.

(25 marks)

Ajax functionality should be used to provide interactive effects on the webpages using data retrieved from your database (e.g., if the mouse hovers over a record ID then use Ajax to request detailed information from the webserver and display the summary data using an in page preview).

(10 marks)

Create a SOAP based web service that exposes an interface to allow querying of the data in your database. For example, the web service could accept a table name and a record id as parameters and then return the associated record from the database. Use of the web service should be integrated into your web application’s functionality.

(10 marks)

Modify the default Identity Provider functionality to store additional information for user accounts.

(10 marks)

Deploy your application to either Windows Azure or an IIS server installation.

(10 marks)