# ***INFT3050 – Web Programming***

# ***Assignment 1 – Part 2***

# ***Marking Guide \ Expectations Document***

# ***Semester 1 – 2019***

1) **Business Layer Design and Implementation (8 marks)**
   Correct n-tier architecture that implements a proper Business Layer/Tier.
   The Layer should only be composed of .cs files written in C#.
   Correct use of Public and Private class/method classifications.
   Correct usage and naming of variables in the layer using Hungarian Notation and/or Camel Case.
   Demonstrated ability to pass data types and objects to and from the Business Layer.
   Demonstrated understanding of Object Orientated design and development using Classes and Methods.
   Objects should be correctly named and instantiated.
   We are providing a dummy payment system to make payments to. This should be used to simulate a remote payment

2) **Data Access Layer Design and Implementation (8 marks)**
   Correct n-tier architecture that implements a proper Data Access Layer/Tier.
   The Layer should only be composed of .cs files written in C#.
   Objects should be correctly named and instantiated.
   Correct use of Public and Private class/method classifications.
   Correct usage and naming of variables in the layer using Hungarian Notation and/or Camel Case.
   Demonstrated ability to pass data types and objects to and from the Data Access Layer.
   Demonstrated ability to pass Data to and from the Data Layer using SQL commands using the ADO.Net Object Model.

3) **Error Checking and Robustness (5 marks)**
   All methods and other code blocks that have the possibility of "crashing" the application should be contained in "Try-Catch-Finally" code blocks.
   Data should be error checked and validate when passed between layers.
   Error checking should be in place to manage Session variables expiring.
   A general Error handling page provided to manage user feedback gracefully.
   The application should be robust and not crash for normal operation.

4) **Code Commenting and Readability (3 marks)**
   All code blocks, pages, methods and classes should have sufficient commenting to explain respective functionality, and its purpose.
   White space and formatting used to ensure the code is readable.

If working in a group versioning control, history and author for respective changes should be included in comments.

5) **SSL(https) and Email Capabilities (6 marks)**

The use of SSL in key places to ensure secured content (3 marks):

- All shopping cart pages should be secure.
- All payment function pages should be secure.
- Admin pages in the Admin section should be secure.

The use of Email from the application for key events (3 marks):

- Forgot password feature.
- Email validation for confirming Admin registration.
- Email copy of invoice/sale when customer makes a purchase and finalises payment.

6) **Correct Project Structure (2 marks)**

A Business Layer (BL) folder or separate Project containing all class files related to the Layer
A Data Access Layer (DAL) folder or separate project containing all class files related to the Layer.
A User Layer (UL) folder or separate project containing all ASPX (and .cs) pages related to that layer.
Other necessary folders such as IMG (for Images), SCRIPT (for scripting classes), and CSS (for style sheets, fonts, etc).

7) **Friendly URLs, State Management, and Admin Functionality (6 marks)**

Correct use or Friendly URLs where needed (2 marks)
State management of session variables, cart items, etc. (2 marks)
Fully functional Admin section that allows Adding/Updating/Deactivating items for sale, managing user accounts, managing Postage options, etc. (2 marks)

8) **Documentation and any required supporting material and correct submission (2 marks)**

References for any code you have sourced, justification for design and coding choices, etc.
Submission of a single ZIP file including ALL of the Visual Studio Project/Solution files using the correct naming format for the ZIP AND the project (for example: cXXXXXXX-Assig1, where XXXXXXX is your student number of person submitting, or if in a group GROUPNAME-Assig1).
Submission of the SQL Script file named in accordance with above format.