Assignment Name	A01: Term Assignment
Goal of the assignment	To specify, design, develop, test and deploy a functional data driven WEB application
Assignment Grade Value	100% of this assignment = 55% of module grade
COVID-19	• **An MVC framework template is now provided which implements user registration and login processes and supports two types of user – ADMINISTRATOR and CUSTOMER** • **All students are welcome to utilise this MVC framework as a starting point to build your chosen application.** • **Alternative MVC open source frameworks may also be used eg Codeigniter but code must be developed and delivered as a Netbeans project.** • **Face to face demonstrations will not be possible – however students are required to attend an online TEAMS demonstration as a major deliverable at the end of the project – see dates below.**
Requirements	**Students may choose their own SUBSTANTIAL web application idea for this assignment.** Applications must be written in PHP using a MVC design pattern. Refer to example ideas accompanying this assignment sheet. The following features (as a minimum) must be implemented in the chosen application. **Database:** A database is provided containing a USER table as part of the MVC framework application. You will need to add your own tables to build a functional application. Data is to be stored in a **fully normalised** database implemented in MySQL or MS SQL Server Stored procedures should be utilised where appropriate. Security - encryption should be used to protect all sensitive user data (such as passwords). **Client Application Features:**

	The application must support **at least** two types of registered user –eg: ADMINISTRATOR and a CUSTOMER - who will be able to access different areas of application functionality when logged on. The application must implement security features to prevent unauthorized viewing of restricted pages and/or functions based on logon credentials. (this is already done for you in the MVC framework template) All user data entry fields should be validated before executing SQL updates or inserts to database tables. Error/exception handling must be used for all application program to database interactions.
Deliverables	The design of the application must be fully documented. Each document/deliverable must be available for assessment: **Deliverable 01 (5%) :** An MS WORD document providing an outline description of the proposed application. See Deliverable 01 Template information on Moodle.: **Deliverable 02 (15%)** : Initial Specification and Design – an MS WORD document containing details of the project design. See Deliverable 02 Template information on Moodle.: **Deliverable 3 (10%):** Initial Coding Design/Demonstration and final Word Document – • Word Document See Deliverable 03 Template information on Moodle.: • ZIP file containing the NETBEANS project with a database folder containing a backup of your database. • Demonstration - You will be required to demonstrate your code during regular class time – see schedule below. **Deliverable 4 (25%):** Final Project Deliverable/Demonstration • An updated MS WORD Document (not zipped)- See Deliverable 03 Template information on Moodle. • A .zip file containing the complete PHP code/Java NETBEANS Project of the application.

	• A backup .sql file (not zipped) for the database implemented in the application. The database must include all relevant test data. • Demonstration - You WILL be required to explain your application **by TEAMS Call - see schedule below**- **Failure to be available to demonstrate will result in significantly reduced overall grade.**

Schedule	Moodle Upload Schedule
	
	• Deliverable 1: Sun 31 January 2021 11pm
	• Deliverable 2: Sun 14 February 2021 11pm
	• Deliverable 3: Tue 23 March 2021 11pm
	• Deliverable 4: Tue 27 April 2021 11pm
	
	Demonstration Schedule (TEAMS)
	
	• Deliverable 3 Demo: During Regular class times
	  ○ Grp A: Weds 24th March 2021
	  ○ Grp B: Thurs 25th March 2021
	• Deliverable 4 Demo: During Regular class times
	  ○ Grp A: Weds 5th May 2021
	  ○ Grp B: Thurs 6th May 2021