**Technological University of the Shannon (TUS)\_**

**Faculty of Engineering & Informatics**

**Semester 1 Assignment 2023**



**Software Development for Cloud 3**

The purpose of this assignment is to write a python Cloud Code web application that Deployed to Google Cloud (See Example). The application must administer some type of Sports or Social Club or organization.

1. **There are 3 deliverables:**

* **Assignment Proposal: 1 paragraph explanation of proposed topic/functionality (due 07/11) (see sample assignment proposal in moodle)**
* **Code for completed application**
* **Screencast video that demonstrates the application executing and briefly describes the code and html pages (and how the interact**

1. **You must also submit a copy of a signed Plagiarism Form**
2. This assessment is worth 30% of the overall module mark
3. I have included in moodle a sample application and a video demonstrating this application (Same example as completed in Class).
4. You cannot use/resubmit any previous assignments. This assignment must be something new and of your own work.

**Task: Design & Build a Python Cloud application that links to a Database using SQLAlchemy that concerns any type of leisure/sports organization. You must submit a screencast video demonstrating the functionality of your application in action.**

**Notes:**

* There is no limit to what you can do but it **must involve developing an application that links a web front-end that links to a database with at least one table**
* Use the coding available on Moodle as a starting point, however your assignment must be original and there are no limits to what you can do.
* There is an example in Moodle that can be found in the section “**Sample Application***”*
* The are three deliverables, each with a separate Marking scheme:
  + Python Code & HTML pages (**65%** of total assignment mark)
  + A 5-minute screencast which will serve as a demonstration of the application **(25%)**
  + A brief Assignment Proposal (see Example). (**10%)**

This 10% mark is also associated with the consistency between proposal and final application.

**Proposal Submission Date: Tuesday 7th of Nov 2023 @ 23:00**

**Main Submission (code & Video): Tuesday 28th of Nov, 2023 @ 23:00**

**Main Submission Files:** Code, screencast and plagiarism form in 3 separate locations**.**

**ScreenCast Guidelines:**

* The screencast must be a **(3- 5 minutes)**
* The links to screencast-o-matic and tutorials are available on Moodle
* Screencast to be structured as follows:

1. Introduction: **Brief** description of what your application is about
2. A walkthrough (demonstration) of your application working with examples of its functionality
3. On screen briefly show and describe important aspects of the actual code including HTML and Code (including how SQLAlchemy is used)

**Main Submissions Links & files to be uploaded on Moodle:**

* **ScreenCast -** Submitted to the **Screencast** submission link
* **ZippedCoding –** Submit a **zipped copy of your code**
* scanned/photo copy of the **plagiarism form**