**DT249 Internet Application Development Assessment**

**Semester II 2020/2021**

Due Date: 30th April 2021

# OVERVIEW

The continuous assessment for this module is designed to provide you with an opportunity to tools and technologies you have been exposed to in class in a practical context

The continuous assessment work for this module constitutes 40% of your overall marks for the module. This assessment will be marked out of 100% and weighted in the overall calculation of the module marks.

# ASSESSMENT Description

**The overall continuous assessment will involve the creation of a website with a 3 tiered client server architecture.**

**The website should provide access to information relating to covid 19 statistics for a number of countries. There is an excel file on brightspace that can be used as a dataset for the information to be displayed. We will discuss how to use an API to obtain up to date data later in the semester but for now the excel file should suffice**

**The website should store historical information in a MySQL database Some of the functionality that could be implemented as part of the website**

* **Mechanism to filter and display information from database (e.g. Select by date, select by country)**
* **Calculations based on data provided (e,g. 14 day incident rate per 100,000)**
* **Two types of user, Admin user who can update the database and read only user who can browse the website.**
* **Admin registration form**
* **Form validation on client-side**
* **Security on client and server side**
* **Charts based on data obtained from website**

**It is expected that the solution should include scripting for both the client and the webserver. The preferred technologies to be used are JavaScript, PHP and MySQL on an XAMPP platform. If you plan to use other technologies in your solution you need to email me to get approval before proceeding**

**For the assignment the deliverables requested are**

* **A design documents outlining what you intend to implement as part of this assignment. This should be a word (or equivalent) document but may include screen shots or dumb HTML. This deliverable should be submitted in advance of the main submission by 24/03/2021.**
* **HTML files including embedded JavaScript or external JavaScript files, CSS files and any other resources required to render the webpages**
* **Server side script file (s) (PHP)**
* **An install script for the database you have used with your website**
* **Installation instructions for database and directory structure**

**Please Note:**

1. **You must pass the examination portion of this module. .**
2. **Unfair practice is a very serious offence in the DIT and you must acknowledge any material used by including a referenced bibliography in any reports you produced this includes references to any design tools you use.**
3. **Assignments must be submitted via email to cosuilleabhain@gmail.com.**

**Marking Scheme:**

|  |  |  |
| --- | --- | --- |
| **Evaluation Headings** | **Evaluation Criteria** | **Marks** |
| **Use of client side scripting for form validation, and dynamic html etc.** | Marks will be awarded for the HTML you generate yourself. Marks will be decided on appropriateness, complexity detail | **25** |
| **Use of server side scripting to implement business logic** | See HTML criteria | **30** |
| **Persistent layer. Database schema and access** |  | **15** |
| **Design document and explanation** | Marks awarded for clarity, completeness and quality | **25** |
| **Installation instructions** | Clarity and completeness | **5** |
|  | **Total** | **100** |