## INTI International College Penang School of Engineering and Technology

## 3+0 Bachelor of Science (Hons) in Computer Science, in collaboration with Coventry University, UK

## 3+0 Bachelor of Science (Hons) in Computing, in collaboration with Coventry University, UK

## Coursework cover sheet

##### Section A - To be completed by the student

|  |  |
| --- | --- |
| Full Name: | |
| CU Student ID Number: | |
| Semester: | |
| Lecturer: | |
| Module Code and Title:  205CDE Developing Modern Web 1 | |
| Assignment No. / Title: | % of Module Mark  100 |
| Hand out date:  26th August 2019 | Due date:  18th November 2019 |
| Penalties: No late work will be accepted. If you are unable to submit coursework on time due to extenuating circumstances you may be eligible for an extension. Please consult the lecturer. | |
| Declaration: I/we the undersigned confirm that I/we have read and agree to abide by the University regulations on plagiarism and cheating and Faculty coursework policies and procedures. I/we confirm that this piece of work is my/our own. I/we consent to appropriate storage of our work for plagiarism checking.  Signature(s): -------------------------------------- | |

##### Section B - To be completed by the module leader

|  |  |  |
| --- | --- | --- |
| Intended learning outcomes assessed by this work:   1. Install, configure and secure a web server ready for non-static content. Understand issues when setting-up web servers. 2. Identify from a variety of technologies to produce a range of standards based websites, incorporating multimedia contents. 3. Understand advantages of dynamic websites; Design and build data-driven dynamic websites that utilise both server-side and client-side scripting language technologies. | | |
| **Marking scheme** | **Max** | **Mark** |
| 1. Design10 2. HTML/CSSS/Javascript 3. Database 4. PHP 5. Report Writing 6. Coding 7. Video | 10  10  10  10  10  10  10 |  |
| Total | 70 |  |
| Lecturer’s Feedback | | |
| Internal Moderator’s Feedback | | |

## 

*205CDE Developing the Modern Web 1*

**Assignment**

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| --- | --- | --- | --- | --- | --- | --- |
| Issue Date: | 26 August 2019 |  |  |  |  |  |
| Deadline: | 18 November 2019 |  |  |  |  |  |
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**1 INTRODUCTION**

There are two assessments in this module:

1. An online quiz will be delivered in the lab session via Blackboard. This will be worth **30%** towards your overall module score.

2. A reflective report on the website that you have developed and the accompanying Github repository that contains the source codes of your website. You also need to prepare and submit a short video that demonstrates your website. This will be worth **70%** towards your overall module score.

**2 ASSESSMENTS 1 (30%)**

An online quiz will be delivered in the lab session via Blackboard and will be worth 30% towards your overall module score. These questions will be related to the previous lectures and are designed to test the recall of the facts taught in these lectures.

**Length**

The quiz will involve answering 30 randomly selected questions from a pool of multiple choice questions, and will last for one hour.

**Deadline**

11th November 2019

**Marking**

The quizzes scores are automatically collected using Blackboard.

**3 ASSESSMENTS 2 (70%)**

**3.1 Requirements**

For this task you must design and implement your own website. You are expected to install, configure and secure a web server on your laptop. You are free to choose your own ideas for this website. You must:

1. You must be creative in designing you website. Your website needs to offer novel solutions or distinct features to other existing/similar websites.

2. You must use tools and technologies taught during this module such as HTML, CSS and JavaScript. However, you may use other tools and technologies, but tools and technologies used must be critically evaluated and justified why you have chosen to use these tools and technologies.

3. You must NOT use commercial software and/or 3rd party packages/libraries. For example, using Dream-weaver or Drupal to create your website is not allowed.

**1**

**Reflective Report**

You must submit a reflective report for the website you created. The word limit for your report is 1,500 words. Your report must:

1. Consider what you have learnt over the term.

2. Discuss each of the technologies you have used in creating the website.

1. Be reflective. For example, you must discuss your website was built in this way, and what you would do differently in the future.
2. Discuss area for improvement, strengths and weaknesses of your project.
3. Make good use of illustrative examples such as screenshots and code snippets.
4. On the cover page of your report, you must clearly mark a link to your Github repository where the source codes of your website can be accessed.
5. On the cover page of your report, you must clearly mark a link to your YouTube videocast.

**GitHub Repository**

You must create a GitHub repository that contains all source codes for your website. You must include the URL of your repository on the cover page of your report.

**Videocast**

You must prepare a short video of **under 5 minutes** that demonstrates how your website works. In this video, you must:

1. Show you website running on the screen and how to navigate it.

2. Explain features of your website and how those meet your design requirements.

3. Show parts of your source codes that implement the features mentioned above.

4. You must include a clear voice for explanation purposes.

5. The video must be produced in high quality so that technical details such as source codes can be clearly viewed.

6. You must upload your video to YouTube and include the URL of your video on the cover page of your report.

7. It is your responsibility to make sure the video can be watched by the academic marking your work. In order to do this, the privacy settings need to be set either Public or Unlisted.

**3.2 Submission**

The report must be submitted through Blackboard. You must clearly mark the links to your Github repository and YouTube videocast on the cover page of the report.

**Deadline**

11:59pm 15th November 2019

**Failing to submit the GitHub or YouTube links will result in a zero mark for this assessment.**



**2**

***Assignment***



**3.3 Marking**

The following rubric will be applied to your submission:



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| --- | --- | --- | --- | --- | --- | --- |
|  | **0 – 2 points** | **3 – 4 points** | **5 – 6 points** | **7 – 8 points** | **9 – 10 points** |  |
|  | Poor web design. Improper  use of layout elements, fonts, and colours. Navigation is not  present, or not easy to follow. | It has basic layout and  structure, limited  implementation of navigation. | The layout is clear, and the  navigation is easy to follow.  It contains successful  attempts to implement  advanced design elements. | The website is visually appealing. It combines different design styles to suit different contents. | The website is of professional standards. It implements responsive design principles and suits different screen sizes and orientations. |  |
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| **Design** |  |
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|  | Very basic use of HTML and CSS. | Implement JavaScript  functions on top of HTML and CSS. But implementation of JS is very basic and limited. | Make use of various different types of HTML tags/attributes, and CSS rules. Successful attempts to incorporate Bootstrap  framework. | Combined HTML, CSS, JS, and  Bootstrap to successfully produce good layouts and visual effects. | The website makes extensive use of Bootstrap framework to a high standard. |  |
| **HTML** |  |
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| **CSS** |  |
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| **JavaScript** |  |
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|  | No data collection on the  website. | Very basic data collection. No further validation or  processing. | Data are being validated/  processed. But database is not designed properly. | Data table are clearly defined and suitable for the type of data being collected. The whole database is properly normalized. | Database is carefully designed and optimized for speed. It includes advanced features such as indexing and triggers. |  |
| **Database** |  |
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|  | The website makes no use of PHP. | Very basic templating. No  attempt to use database  system. | Basic use of both template  and database system. Basic levels of routing | Integrate various features using  PHP such as web forms and email support. | The website makes extensive use of PHP at high standard.  It shows trace of testing and debugging. |  |
| **PHP** |  |
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|  | The report is poorly  structured, and contains lots of grammar mistakes and errors. | The report contains some  grammar mistakes. But  there’re lots of improper uses of screenshots and illustrations | The report makes proper use of screenshots and  illustrations. | The report is clearly structured with proper use of references. | The report is clearly structured and well written with little mistakes. |  |
| **Report** |  |
| **writing** |  |
|  |  |
|  | The student does not fully  understand the code used. | The website is fully functional but there are some comments, not sufficient enough to make  codes self-explanatory. | All codes are properly  documented in the comments. All codes are properly formatted. | The website makes proper use of programming techniques covered in the worksheets. All variable names and indentations etc. are consistent and follow specific conventions. | The website makes  appropriate use of advanced, cutting-edge programming techniques not mentioned during the course. |  |
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| **Coding** |  |
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|  | The video shows basic  functionality but poor  explanation of technical  issues. Low-quality audio. | Simple screencast that  demonstrates the working app and talks through the code. | A clear and detailed  screencast that is succinct and clear. | Edited video with simple titling.  High production values. | Professional-standard video  with high production values |  |
| **Video** |  |
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