Softwarica College of IT & E-Commerce
STW205CDE
Developing the Modern Web
Assignment Brief 2020/21

in collaboration with

Module Title: **Developing the Modern Web**	Ind/Group **Ind**	Cohort: **May 2021**	Module Code: STW205CDE
Coursework Title (e.g. CWK1) Coursework1			Hand out date: TBD
Lecturers: Pradip Kandel			Due date: TBD
Estimated Time (hrs.): Word Limit: * Coursework 1: 1000	Coursework type: **Assignments / Phase Test**		% of Module Mark Phase Test - 30 % Assignment -70%
Submission arrangement online: via Softwarica Learning Moodle File types and method of recording: Document or PDF files Mark and Feedback date: 3 weeks from assignment submission date. Mark and Feedback Method: Comments and Rubric marks.			

On completion of Developing the Modern Web a student should be able to:

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 utilize both server-side and client-side scripting language technologies.

Tasks and Mark distribution:

1. Phase Test (30 marks)
2. Assignment (70 marks)

Notes:

1. You are expected to use the CUHarvard referencing format. For support and advice on how this students can contact Centre for Academic Writing (CAW).
2. Please notify your registry course support team and module leader for disability support.
3. Any student requiring an extension or deferral should follow the university process as outlined here.

4. The University cannot take responsibility for any coursework lost or corrupted on disks, laptops or personal computer. Students should therefore regularly back-up any work and are advised to save it on the University system.
5. If there are technical or performance issues that prevent students submitting coursework through the online coursework submission system on the day of a coursework deadline, an appropriate extension to the coursework submission deadline will be agreed. This extension will normally be 24 hours or the next working day if the deadline falls on a Friday or over the weekend period. This will be communicated via email and as a Softwarica Moodle announcement.
6. Assignments that are more than 10% over the word limit will result in a deduction of 10% of the mark i.e. a mark of 60% will lead to a reduction of 6% to 54%. The word limit includes quotations, but excludes the bibliography, reference list and tables.

Coursework 1 (70%)

Requirements

For this task you must design and implement your own website. You are free to choose your own ideas for this website. Your website must cover the following points:

1. You must be creative in designing your 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 or any JavaScript library (not mentioned during the course).
3. You must use either Flask or Django as a templating framework.
4. You must use either MySQL or PostgreSQL as database.
5. 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.

Reflective report

You must submit a reflective report for the website you created. The word limit for your report is 1,000 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.
3. Be reflective. For example, you must discuss your website was built in this way, and what you would do differently in the future.
4. Make good use of illustrative examples such as screenshots and code snippets.
5. 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.

6. 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 and submit the same URL in college Moodle.

Videocast

You must prepare a short video of between 5 to 8 minutes that demonstrates how your website works. In this video, you must be able to:

1. Show your 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 marker. In order to do this, the privacy settings need to be set either Public or Unlisted.

Submission

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

Rubrics for Coursework 1

	0 – 2 points	3– 4 points	5 – 6 points	7 – 8 points	9– 10 points
Design	Poor web design. Improper use of layout elements, fonts, and colors. 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.
HTML CSS JavaScript	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.
Database	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
Django	The website makes no use of Django framework.	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 Django such as web forms and email support.	The website makes extensive use of Django at high standard. It shows trace

					of testing and debugging.
Report Writing	The report is poorly structured, and contains lots Report of grammar mistakes and writing 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.
Coding	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.
Video	The video shows basic functionality but poor Video 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