



**SCHOOL OF INFOCOMM TECHNOLOGY**

Diploma in Cybersecurity & Digital Forensics

**Front End Development (FED)**

**ASSIGNMENT**

|                       |  |
|-----------------------|--|
| Duration:             | <b>Week 12 to Week 16 (2 Jan – 4 Feb 2023)</b> |
| Weightage:            | <b>50%</b>                                     |
| Individual/Team/Both: | <b>Both</b>                                    |
| Deadline:             | <b>2359hr Sunday 4 Feb 2023</b>                |

**Penalty for late submission:**

- 10% of the marks will be deducted for each day (inclusive of Saturdays, Sundays and public holidays) after the deadline.
- No submission will be accepted after 2359hr 11 Feb 2023.

**There is a total of 4 pages (including this page) in this hand-out.**

## OBJECTIVES

On completion of this activity, student will have learned how to:

- Design and develop responsive front-end web pages using HTML, CSS, JavaScript and/or jQuery.

## BACKGROUND

The assignment requires your team to develop a responsive front-end web site. A report of the website has to be submitted alongside the website itself. A cover page and sample website is provided for students to reference the structure of the report.

## ACTIVITIES

You are to work in teams of 4 or 5 students for this assignment. Choose **one** of the tabulated themes below. Each team in a class should select a different theme. There should **NOT** be duplicate theme developed in a class.

| No. | Website Theme                 |
|-----|-------------------------------|
| 1   | Covid-19 Pandemic             |
| 2   | Food & Beverage               |
| 3   | Sports & Fitness              |
| 4   | Singapore Tourist Attractions |
| 5   | Smart City for Elderly        |
| 6   | Geeks & Technology            |
| 7   | Cyber Gaming                  |
| 8   | Beyond Science - Paranormal   |

After selecting the theme, developed topics surrounding the theme. Thereafter, **each student must work on his/her own topic** that must include the followings:

- HTML Semantic Elements  
(refer [https://www.w3schools.com/html/html5\\_semantic\\_elements.asp](https://www.w3schools.com/html/html5_semantic_elements.asp))
- Cascading Style Sheet (CSS) in **css** folder
- JavaScript or jQuery in **js** folder
- Multimedia in **media** folder
- Navigation menu
- Tables and Form
- Responsive Elements and Animation

Information can be sourced from the Internet. However, you should provide citation to the information sourced on the page itself so as to avoid copyright infringement. This is especially so for multimedia materials (e.g. images, diagrams, audio, video, etc.) referenced from the Internet.

## DELIVERABLES

Your deliverable should include the following:

1) A **working** front-end website with the following folders/files:

- Project solution file (.sln)
- css folder (.css)
- js folder (.js)
- media folder
- HTML files (eg; index.html, credits.html, etc)

You can refer to the marking criteria section for exact details of the webpage requirements and contents.

2) A **completed** assignment report with cover page. The cover page can be downloaded from Brightspace.

A sample report is also available in Brightspace. Please note that the sample report is only a guide. It is not a complete report. Students can reference the sample report to structure his/her own report.

## SUBMISSION

All HTML, CSS, JavaScript/jQuery and media files used for the web site must be submitted into MS Teams group. Zip up the project solution's directory and submit into MS Teams group. Your lecturer should have created a private group for you to submit (upload) your project.

Please ensure that the zipped project file is correctly uploaded and not corrupted. It is important to note that the zipped file must contain Visual Studio project solution file. The zip file must be readily executed from Visual Studio upon download and unzipped by lecturer.

Apart from that, please ensure that the following are done before submitting your work:

- Your home page is named as "**index.html**".
- Your project (all webpages) run as a **cohesive** website.
- Check that all images, audio and video appear when you run your project.
- State clearly page(s) developed by individual team member in "**credits.html**". Also, credit all references used in the project.

*You are strongly advised to keep a backup copy of your own project in the event of unforeseen circumstances.*

**Submission Deadline: 2359hrs Sunday 4 Feb 2023**

## ASSIGNMENT DEMO

Your team will demo the website in class during Week 17/18. During the demo, each member will demonstrate the web pages developed and to answer any queries. Allocated presentation time per team is 25-30 minutes.

## MARKING CRITERIA

### Team Component: 20%

- Homepage well integrated with all webpages together with credit page
- Homepage layouts well-designed with:
  - Header and Footer HTML pages to ensure consistency of overall look and feel of the web site with external stylesheet
  - Menu bar for ease of navigation
- Folders created for stylesheet (css), javascripts (js) and media
- Team Report write-up

### Individual Component: 80%

- Information content of webpages is relevant
- Web page layouts well-designed with:
  - Inclusion of header and footer HTML pages into the individual HTML page(s)
  - Inclusion of responsive elements
  - Good user interaction using JavaScript / jQuery
  - External stylesheet to style your HTML pages
  - Appropriate use of tables
  - Appropriate animation and multi-media
  - Implementation of form
- Well-prepared to demo use of all the features
- Individual Report write-up

### PLAGIARISM WARNING:

**If a student is found to have submitted work not done by him/her, he/she will not be awarded any marks for this assignment. Disciplinary action may also be taken.**

**Similar action will be taken for student who allows other student(s) to copy his/her work.**