Interactive Development Diploma in Immersive Media, Diploma in Information Technology Year 1 (2022/23) Semester 1.2	Version 1 Semester **Oct 2022**
Assignment Project 1 (30%) **Front-End Development**	Week 3 - 7

OVERVIEW

You are to design and develop a responsive website for a **company revamp (real or fictional) or a fictional company site of your own**

REQUIREMENTS

- Build a static front-end responsive website using HTML, CSS, Javascript and modern web development techniques
- Design a front-end web application based on sound design principles, accessibility
- Use version control software to maintain, upload code
- Test and deploy a front-end web application to Github
- This is an **INDIVIDUAL** project

AIM

In the process of developing the project, you should delve into questions such as:

- Does the website address the needs of the intended audience
- Is the purpose of the website evident to the audience
- Has it been appropriately tested for cross browser compatibility, platforms and devices
- Are the aesthetics appealing and attractive for the intended audience
- Building skills in web development and design

You are to inform your tutor on the progress, purpose of your site.
You are required to create the website **from scratch.**
Strictly **no usage of web templates.**

1. INTRODUCTION

You are free to ideate on a theme, do discuss with your tutor in advance.

Project Example Idea 1

Build a website for a band (real or fictional)

External user's goal:
The site's users are fans and potential fans who wish to learn more about the band's history and the band members, and possibly book them for shows.

Site owner's goal:
The band are interested in selling more of their music/merchandise and getting more gigs.

Potential features to include:

- Showcase photos, audio and/or video clips from the band's catalogue.
- Publicise the band's upcoming shows and/or availability to perform at events such as weddings and corporate parties.
- Provide links to external resources, such as the band's social media profiles (can point anywhere at all).

Suggested Javascript features to include:

- Use a dropdown or a combination of options to create a filter for displaying certain photos.
- Micro interactions when interacting with the site eg, clicking on an interactable area to show some animation, mouse over interactions, scrolling interactions when interacting with the site.

Project Example Idea 2

Build a website for your own fictional company .

External user's goal:
The site's users are your potential customers, looking for information about your services or product.

Site owner's goal:
Present company in the best light and appeal to customers and win customer's confidence.

Potential features to include:

- Include fictional track record and or Testimonies
- Outline the services you provide
- Provide information and contact information for customers to contact you.
- Offers and promotion eg, for your first time customers.
- Advanced potential feature (nice-to-have)

Suggested Javascript features to include:

- Micro interactions when interacting with the site eg, clicking on an interactable area to show some animation, mouse over interactions, scrolling interactions when interacting with the site.
- An input box to allow users to enter promo code and show promotion and details of promo code activated.

2. GUIDING FACTORS

The full design is implemented providing a good solution to the users' demands and expectations.

Thinking points

- Is the web site sound and fits the audience intent?
- Have you tested across browsers?
- Is the website developed as close to what was proposed in the wireframe and documentation?
- Is the navigation structure sound?

Real world application

- Clearly understandable site-specific content is used rather than Lorem Ipsum placeholder text
- All links to external pages open in a separate tab when clicked
- The final application is aligned to the user stories presented at the start of the project
- Testing procedures are comprehensive, with a good level of coverage, and have clearly been followed. All noticeable errors have been corrected or documented.

Version control systems are used effectively:

- all code is managed in git with well-described commit messages
- there is a separate, well-defined commit for each individual feature/fit
- there are no very large commits which make it harder to understand the development process and could lead the assessor to suspect plagiarism

The full application development process is documented:

- the purpose of the application is clearly described in the **README**
- the project's documentation describes the design work undertaken for this project and the reasoning behind it
- wireframes, mockups, diagrams, etc., created as part of the design process are included in the project

3. SUBMISSION CRITERIA

All files are to be submitted to **Network drive & deployed to Github**

Note: Always backup your files using other mediums (eg. Google Drive, Dropbox, External HDD, ictspace server) throughout the assignment.

No.	Deliverable	Naming Convention	File Format
1.	Wireframe	ID_StudentID_StudentName_Assg1_wireframe	.xd
2.	Website files Html, CSS, Javascript *Includes item no.3*	ID_StudentID_StudentName_Assg1_website (only for submission folder naming)	All pages to have proper extension .html , .css, .js homepage to named as **index.html**
3.	Documentation. README.md	**README.md**	This file should be placed together with your website source codes
4	Video walkthrough (5 min)	ID_StudentID_StudentName_Assg1_VideoWalkthrough	Mp4 or any playable video formats

Include all original artwork when possible. (.psd, .ai, .docx, etc.)
*Note: Files should be properly named and structured. Failure to do so will result **in heavy penalization** of marks. Marks are given for proper file organization*

DELIVERABLE DETAILS

1. Wireframe

- Set of wireframes of any fidelity with appropriately named artboards
- Wireframes are to include both desktop and mobile views

2. Website (Read Guiding Factors and Rubrics Guidelines)

- Fully functional responsive website that is user-friendly
- All pages are to be have .html extension
- Landing/Home/Index page to be named as index.html
- Organise HTML,CSS and Javascript into well defined and commented sections
- Ensure that there are no broken links
- Is the site validated?

Website to have **at least 3 functioning pages in total**. If using a single scroll page (SPA), have at least 3 substantial portions in the site.

3. Readme.md

The readme is to contain all documentation and research done.
It should also detail down:

- the user audience intent and purpose.
- Who the website is catering for? Value that it is providing to users
- What is the website catering for?
- Attribute all external source code used

See example **README.md**
https://guides.github.com/features/mastering-markdown/

4. Video Walkthrough

The video walkthrough to tell and showcase the your website, features and selling points.

- 5 min video to quickly showcase your website
- You should explain your design rationale
- Showcase all features that you have implemented
- Briefly flash the javascript code of the parts that you've programmed interactions.

3. IMPORTANT TASKS & DELIVERABLES

- Read the requirements for the application carefully. Some requirements are **necessary** for a Pass grade.
- For submission, you should
    - **For Brightspace:** Create a folder ID_studentid_studentname_Assg01 and include all deliverables in that folder and zip it up.
    - **For Github submission:** Ensure all deliverables are named appropriately. Your website should start with an index.html and contain a README.md
    - **Cross check** all your files are working and can be opened
- All documents submitted must be in **their intended formats**

DUE DATE

Assignment is due on **Week 7 End of Class**

4. ASSIGNMENT WEIGHTAGE

ITEMS	WEIGHTAGE
Technical *HTML, CSS & Javascript Implementation? Proper version control? Website is coded in a responsive format? Follow guiding factors and rubrics guidelines? Code is well validated?*	**60%**
Wireframe *Wireframe explains the design and caters to responsive design? Layered files with proper naming conventions?* *Number of wireframes should match the number of webpages and include both desktop and mobile iterations accordingly*	**10%**
Visual Appeal Properly used typography? Attractive graphics? Properly selected images and content? Easy to read? Aesthetic?	**20%**
Checkpoint & Demo *Practised? Clearly explained and demo shown?*	**10%**
GRAND TOTAL	**100%**

5. ASSIGNMENT RUBRICS GUIDEBOOK

Development & Implementation

Code demonstrates characteristics of 'clean code':
Consistent and appropriate naming conventions within code and in file naming, e.g.

- file names and class names, are descriptive and consistent
- for cross-platform compatibility, file and directory names will not have spaces in them and will be lower-case only
- all HTML attributes and CSS rules, are consistent in format, follow standards for the language and are appropriate and meaningful

File structure

- whenever relevant, files are grouped in directories by file type (e.g. an assets directory will contain all static files and code may be organised into sub-directories such as css, etc)
- there is a clear separation between custom code and any external files (for example, library files are all inside a directory named 'libraries')
- files are named consistently and descriptively, without spaces or capitalisation to allow for cross-platform compatibility.

Readability

- id/class/attribute names clearly indicate their purpose
- code is indented in a consistent manner to ease readability and there are no unnecessary repeated blank lines (and never more than 2)
- CSS code is split into well-defined and commented sections
- Semantic markup is used to structure HTML code
- HTML and CSS are kept in separate, linked files
- CSS files are linked to in the HTML file's head element
- errors are handled gracefully and users are notified of the problem where appropriate.

Comments

- all custom code files include clear and relevant comments explaining the purpose of code segments

Compliant code

- HTML code passes through the official W3C validator with no issues
- CSS code passes through the official (Jigsaw) validator with no issues

Robust code

- no logic errors are found when running code
- errors caused by user actions are handled
- inputs are validated when necessary.

6. SUBMISSION DEADLINE

Please note that there is a mid-project milestone submission on **Week 5.** Making it a **total of 2 significant deadlines** for this assignment.

INTERIM SUBMISSION

Deadline: [WEEK 5] End of Class 2nd lesson of the week

Marks are awarded based on progress at current checkpoint

All deliverables to be properly named and submitted on **Brightspace and GitHub** as instructed by your lecturer.

FINAL SUBMISSION

Deadline: [WEEK 7] End of Class 2nd lesson of the week

All deliverables to be properly named and submitted on **Brightspace and GitHub** as instructed by your lecturer.

Your website must be fully functional on your Github Pages account. Your source code submissions on Brightspace will be checked to ensure that your submission is timely and valid.

WORK REVIEW

As part of your assessment, you may be required to give a brief explanation of selected pieces of content, writeup done by you or your team.

PLAGIARISM AND COPYRIGHT

Plagiarism means, "*copying any part of a source, and then submitting it, claiming that it is your own work*."

Please ensure that all the works submitted by you are not copied from other sources. Any attempt to plagiarize will be dealt with severely, and it may result in your failing the module.

- This is an **INDIVIDUAL** assignment. All work must be attributed and credited
- If you are found committing plagiarism, you will score 0 for your assignment

LATE SUBMISSION

Late submission will be **penalised** (10% of the marks for each day late after 12 noon). Submission will **not be accepted after 5 days** (including weekends and public holidays) from the date of submission.

DUE DATE

Assignment is due on **Week 7 1 May End of Class 2nd lesson of the week**

- End of Project Brief (Total: 9 pages) -