

Web Design and Development

Group Project Brief – 60% of the final mark

Deadline: **Friday, 5th August 2022 @7pm (Week 11)**

IMPORTANT: It is your responsibility to avoid plagiarism. Please read the guidelines on academic honesty and integrity and [how to avoid plagiarism](#) made available by the NCI library.

NOTE: You are not permitted to publish this assignment brief on any websites. You are not permitted to publish/share your solution with others.

Project Description:

You are required to develop a website with the theme of community.

An example would be a website for a festival, charity, local service such as community group, artist, small craft business. You are not limited to these ideas.

The project will be completed as part of a team of 3, using Atom, Notepad++ (or your preferred text editor) for writing code and Word for the report.

Overview:

This assignment is project-based and each project group will have 3 participants.

- Only **1 website** is made between the group. There will only be one submission per group.
- Each group will complete **1 project report** (between 800-1000 words).
- Everybody must fill in a peer evaluation form.

The report must include the following:

- The name of all team members.
- The requirements as if gathered from the client.
- The sitemap, wireframe & mood board for your website based on the requirements.

- List of what each team member did in the project.
- Every team member must develop at least one webpage.
- The website should be tested using the validator and then optimised using [Google Page Speed](#) (requires deployment). Results of pre and post-tests should be captured and documented in your report.
- Images should be optimised for the website. Document this process in your report. **All images MUST be your own or royalty free.**
- A link to the deployed website.
- A link to GitHub with code (showing collaboration).
- A link to the video presentation.

Details:

You have been assigned as web developer and you need to state the client requirements. In your design (wireframes & mood board) show how you incorporated the client's requirements.

Demonstrate the following:

- Header with website title, logo and tagline.
- Consistent navigation across all pages of the website.
- One or more uses of a background image.
- Design being carried through on all pages.
- Gallery of six images. When the user clicks an image JavaScript to be used to show some text relating to that image.
- Form with at least three fields and JavaScript validation on all HTML code
- Each page must have an example of JavaScript to demonstrate DOM manipulation.
- A JavaScript minigame for visitors to play, which include an element of randomisation.
- All pages are responsive.
- There is only one external CSS file for all pages.
- Use of folders and file-paths.
- Show the use of two or maximum three Google fonts throughout site.

Website to include the following:

- Files must be formatted correctly, and the code commented.
- Comments to show who did what work on the website.

Website to be deployed online. Any deployment service may be used however, here are some free examples.

- <https://pages.github.com/>
- <https://www.infinityfree.net/>
- <https://www.hostinger.com/free-hosting>

Submission:

Only **one student** in a group will submit the group project via Moodle

- Submit a .ZIP file that includes all HTML, CSS, JS code and images
- Project Report in .PDF format

Video Presentation:

Students must submit a video demonstrating their website and addressing each section of the grading rubric (see table below). A video presentation should last no more than 10 minutes and will consist of a screen capture and voiceover of the website and the results of the testing. Students should add any other details they feel are relevant.

Screen captures may be completed using any tool however, videos must be deployed to Microsoft Streams in mp4 format.

Here are some example technologies that may be used to screen record:

- Microsoft Streams
- Snagit
- Windows Game Bar
- OBS

Marking rubric on the next page



	80+	70-79	60-69	50-59	40-49	0-39
Responsive (15%)	Website is responsive with no visual errors using a responsive framework with extensive customisation.	Website is responsive with no visual errors using a responsive framework with some customisation.	Website is responsive with no visual errors using a responsive framework with no customisation.	Website is responsive but with some visual errors.	Website is responsive but with many visual errors.	Website is not responsive.
Image gallery (10%)	Gallery is visually appealing and has advanced functionality AND Images are optimised.	Gallery is visually appealing and has required functionality AND Images are optimised.	Gallery is visually appealing and has basic functionality AND Images are optimised.	Gallery is visually appealing and either has no functionality OR Images are not optimised.	Gallery is visually appealing and has no functionality. Images are not optimised.	Gallery is visually unappealing and has no functionality. Images are not optimised.
Form validation (10%)	Form with validation using JavaScript. Visually appealing and clear to users.	Form with validation using JavaScript.	Form with some basic validation using JavaScript and HTML5.	Form with some basic validation using HTML5.	Form with little or no validation.	No form.
JavaScript implementation (25%)	All required functionality implemented and working. Visually appealing and easy to use.	Most of the required functionality implemented and working. Visually appealing and easy to use.	Most of the required functionality implemented. Visually unappealing or difficult to use.	Some basic functionality or functionality with errors.	Minimal JavaScript.	No JavaScript.
Deployment (10%)	Website is deployed online with excellent file structure and pathnames.	Website is deployed online with good file structure and pathnames.	Website is deployed online however has a poor file structure OR pathnames.	Website is deployed online however has a poor file structure AND pathnames.	Website is deployed online however has some deployment related errors (404, images not showing etc).	Website is not deployed online.
Testing and optimisation (10%)	Website tested with the HTML and CSS validator with excellent result. Optimised via Google Page Speed rankings – excellent result.	Website tested with the HTML and CSS validator with good result. Optimised via Google Page Speed rankings – good result.	Website tested with the HTML and CSS validator with adequate result. Optimised via Google Page Speed rankings – adequate result.	Website tested with the HTML and CSS validator with poor result. Optimised via Google Page Speed rankings – poor result.	Website shows little evidence of testing or optimisation.	Website shows no evidence of testing or optimisation.
Planning, formatting, wireframes, commenting of code (10%)	Excellent evidence of planning, requirements, wireframing, formatting and commenting of code.	Good evidence of planning, requirements, wireframing, formatting and commenting of code.	evidence of planning, requirements, wireframing, formatting and commenting of code.	Adequate evidence of planning, requirements, wireframing, formatting and commenting of code.	Very poor effort of planning, minimal formatting and commenting.	None.
Effort (10%)	This final section is based on the examiner's discretion. Learners who score well here will have gone beyond the scope of the project document, will discuss testing and design decisions, and will have presented their video overview excellently.					