Web Design and Development

**Release Date: 28th July 2021**

**Submission Date: 28th August 2021**

**IMPORTANT:** It is your responsibility to avoid plagiarism. Please read the guidelines on academic honesty and integrity an[d how to avoid plagiarism m](https://libguides.ncirl.ie/referencingandavoidingplagiarism)ade 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 other students. This includes your deployment link.

**Project Description:**

You are required to develop a website for a business customer. The website must have come under the theme of Mental Health.

**Overview:**

Your submission will consist of a document with link to a GitHub Repository and deployment of your choice, and a link to your video presentation.

The presentation will last no more than 8 minutes and will include the following:

* A section-by-section demonstration, highlighting technical aspects from the grading rubric
  + JavaScript should be explained line by line via showing the code
  + Responsive web design implementation should be broken down in general terms
* Website should be tested and improved using the Google Page Speed service. Your presentation should include
  + Pre and post screenshots
  + A rationale as to how the Page Speed was improved

## Details:

Create a 1 page website with a menu that links to 4 sections in that 1 webpage. It must include the elements outlined below.

To include:

* Initial landing section with an image, navigation, logo, title, paragraph describing the website.
* Gallery section with at least 6 images. The gallery should be produced in a thumbnail format and when users click on a small image a larger image OR paragraph describing the image should appear. Use JavaScript for this show/hide functionality.
* Contact section with a form that implements JavaScript and HTML5 form validation and should take in the following details (all mandatory): Name, Phone Number, Email, Message
* JavaScript addition of your choice. This addition should make use of an array.

## Website will include the following:

* Files must be formatted correctly and commented.
* Website must be responsive. Bootstrap or other similar systems may be used.
* Website must be deployed online, any deployment service may be used however here are some free examples.
  + GitHub pages
  + Gearhost
  + Infinfityfree.net
  + 000WebHost

# Uploading

Please submit the following via Moodle

* Word doc including GitHub link, deployment link and MS Stream Link

Students must submit a video demonstrating their website and addressing each section of the grading rubric (see table below). See details of how to submit here: <https://web.microsoftstream.com/video/53baa13d-27d1-4985-a7bc-7618705f803b>

A video presentation should last no more than 8 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:

* Snagit
* Windows Game Bar
* Filmora
* Screencast-o-matic
* OBS
* Loom

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| --- | --- | --- | --- | --- | --- | --- |
|  | 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 (15%) | Gallery UI is visually appealing, uses DOM manipulation not covered in class and uses custom code | Gallery UI is visually appealing uses DOM manipulation that was covered in class and uses custom code | Gallery UI is visually appealing and has basic functionality using non custom code | Gallery UI is visually unappealing and has basic functionality using non custom code | Gallery UI is visually unappealing or has no functionality. | Gallery is visually unappealing and has no functionality. |
| Contact (10%) | Contact form with validation using JavaScript and HTML5. Visually appealing and clear to users when errors are made. | Contact form with validation using JavaScript and HTML5. | Contact form with some basic validation using JavaScript. | Contact form with some basic validation using HTML 5. | Contact form with little or no validation. | No contact form. |
| Custom JavaScript implementation (20%) | JavaScript array implementation that goes beyond the scope of what was covered in the module. Clear understanding shown in presentation | JavaScript array implementation that uses several concepts covered in the module. Clear understanding shown in presentation | JavaScript, with an array. Code is working as expected and includes DOM manipulation | Some JavaScript, with an array. Code is working as expected but lacks DOM manipulation | Some JavaScript, with an array. Code is not working as expected | No custom JavaScript. |
| Deployment (10%) | Website is deployed online with excellent file structure and pathnames. | Website is deployed online with excellent file structure or pathnames with minor errors. | 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 (15%) | Presentation shows Optimisation via Google Page Speed rankings – perfect results and well explained | Presentation shows Optimisation via Google Page Speed rankings – good result/choices and well explained | Presentation shows Optimisation via Google Page Speed rankings – good result/choices or well explained | Presentation shows Optimisation via Google Page Speed rankings – poor result/choices or poorly explained | Presentation shows little evidence of testing or optimisation. | Presentation shows no evidence of testing or optimisation. |
| Effort (15%) | 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. | | | | | |