|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Assessment # and title | | | | C-WT-AT2-POR-Phase-3 | | | | Web Technologies Portfolio Phase 3 | | | | | |
| **Lecturer name** | | | | *Adrian Gould* | | | | | | | | | |
| **Student name** | | | | *Alexander Glover* | | | | | | | | | |
| **Student ID number** | | | | *20085553* | | | | | | | | | |
| **Telephone contact number** | | | | *0438725598* | | | | | | | | | |
| **Email** | | | | *20085553@tafe.wa.edu.au* | | | | | | | | | |
| **By completing and submitting this signed form to my lecturer, I am stating that:**   1. The attached submission is completely my own work 2. I have correctly cited all sources of information used in this work (if required) 3. I have kept a copy of this assessment (where practicable) 4. I understand a copy of my assessment will be kept by the NMTAFE for their records 5. I understand my assessment may be selected for use in the NMTAFE’s validation and audit process to ensure student assessment meets requirements | | | | | | | | | | | | | |
| **Student Signature** | | *AG* | | | | | | | **Date** | | *23/09/2023* | | |
| Assessors please note: Where verbal clarification has been sought from a student to gather additional assessment evidence from an assessment item, question/s and response/s must be recorded, signed, and dated by the assessor, against the relevant assessment item/s. | | | | | | | | | | | | | |
| NB: Feedback will be given via Blackboard when possible. | | | | | | | | | | | | | |
| **Submission 1** | | Result | Satisfactory / Not Yet Satisfactory | | | | | | | Date | | |  |
| *To satisfy requirements for this assessment, you need to complete the following:* | | | Feedback to student… | | | | | | | | | | |
| **Submission 2** | | Result | Satisfactory / Not Yet Satisfactory | | | | | | | Date | | |  |
| *To satisfy requirements for this assessment, you need to complete the following:* | | | Feedback to student… | | | | | | | | | | |
| **Student Feedback** | | | Feedback from student… | | | | | | | | | | |
| Lecturer Signature | | |  | | | | Student Signature | | | | | |  |
| **Assessment type (🗹):** | | | | | | | | | | | | | |
|  | Questioning (Oral/Written) | | | |  | 3rd Party Report | | | | | |  | Practical Demonstration |
|  | Other – Project/Portfolio (*please specify on the right):* | | | |  | | | | | | | | |

[Assessment Steps 10](#_Toc144137646)

[Complete the Front Page 10](#_Toc144137647)

[Setting Up for Phase 3 11](#_Toc144137648)

[Determine your Site Colour Scheme 12](#_Toc144137649)

[What are your selected colours? 13](#_Toc144137650)

[Locate and Select Appropriate Images 14](#_Toc144137651)

[Image Sources 15](#_Toc144137652)

[Implement Content for Images and Additional Text 16](#_Toc144137653)

[Validating the HTML 16](#_Toc144137654)

[Testing the page 17](#_Toc144137655)

[Demonstrate to Assessor 18](#_Toc144137656)

[Submission of Portfolio Work 19](#_Toc144137657)

[Appendix A: Code Style Guidelines 20](#_Toc144137658)

[Appendix B: Naming Conventions 21](#_Toc144137659)

[HTML, CSS and JS Files and folders 21](#_Toc144137660)

[File extensions 21](#_Toc144137661)

[Appendix C: Site Folder Structure 22](#_Toc144137662)

[Appendix D: Sample Wireframes 23](#_Toc144137663)

[Basic Layouts for Desktop and Mobile 23](#_Toc144137664)

[Basic Layouts with Articles for Mobile and Desktop 24](#_Toc144137665)

[Header & Navigation Layout Options 25](#_Toc144137666)

[Footer Layout Options (Desktop and Mobile) 25](#_Toc144137667)

[Article Layouts & Aside Layout 26](#_Toc144137668)

[Image Layout 26](#_Toc144137669)

[Aside Content Layout 27](#_Toc144137670)

[Appendix E: Content for Phase 3 28](#_Toc144137671)

|  |
| --- |
| Assessment Due Date |
| This assessment is split into components that have several due dates.  This component of the Portfolio of Work is due:   * Week 11 at 17:30 (5.30PM) on day of scheduled lecture   These are also shown in the Learning and Assessment Plan.  Also, refer to Blackboard for most accurate dates, which may alter due to unforeseen circumstances.  We also will endeavour to update these document(s) at the same time. |
| Required Resources | |
| The base requirements this assessment task, are listed below. They are listed as common (for both PC and Mac), and for the individual operating systems.  We presume that all assessment work is completed on a **PC** with the software as specified. This is to reduce configuration issues affecting the successful completion of the assessment item.  Whilst other applications and operating systems may be used, we are unable to give extensive support to ensure your environment is working as expected. Common:  * Access to Office 365 & Microsoft Word * WebStorm, PhpStorm * Access to Figma.com for diagrams * Access to TAFE Web Site Hosting (located on dev.ScreenCraft.net.au) * WinSCP for deployment of site * Git for version control, GitHub account for  PC:  * Web Browsers (Must have **at least** TWO different rendering engines)   + Chromium based: Edge, Chrome,   + Firefox   + Opera  Mac:  * Web Browsers (Must have **at least** TWO different rendering engines)   + Chromium based: Edge, Chrome,   + Firefox   + Opera   + Safari   ***Use of some of these items may not be used in this part of the assessment task.*** |
| Optional Requirements |
| An application to provide web services such as web server, database and more.   |  |  | | --- | --- | | Windows | MacOS | | Laragon  AMPPS  XAMPP  Docker | MAMP  AMPPS  XAMPP  Docker |   The lecturers will not be familiar with all the options listed, and it will be up to the student to investigate how to set up and use any alternatives.  The use of alternative IDEs is allowed (such as VS Code), but not supported. |
| Instructions |
| Follow the steps listed in this assessment item.  Submission of the documentation, code, and associated items is at the end of each part of the portfolio.  Provide evidence in the form of scanned documentation, completed assessment documents, screenshots, screencasts and other formats as required in this assessment. |
| Scenario |
| You are currently working as an intern for a small Perth-based start-up company called *Incredibly Obvious Technologies*.  The company is challenging you to work on a project to assess your skills as you develop them.  The project will build up in phases from the base content by adding semantic HTML, CSS to provide layout and suitable images to provided content.  The final section of the project is to add JavaScript to solve a specific problem.  You will find the project specifications; an outline of the phases of development and other details given below. |
| Portfolio Specifications and Development Outline |
| The following are the specifications for the project you are undertaking as part of this portfolio of work.  Each part of the project corresponds to another part of the portfolio, with each part submitted according to provided deadlines.   * Phase 0:   + Setting Up – not assessed but contains the required steps to initialise the portfolio. * Phase 1:   + Implement and test semantically and structurally correct HTML for the provided layout design and provided content. * Phase 2:   + Implement and test the required CSS to provide the layout as provided. * Phase 3:   + Add additional content and styling to amend the project to the given specifications. * Phase 4:   + Add and test a JavaScript solution for a predefined problem to the page.   Each phase will be version controlled and uploaded to the ScreenCraft Development Server.  Phase 0: Setting Up  In this phase, you are to complete the setting up of the portfolio.  This is submitted as part of Portfolio Part 1.  Phase 1: Text to Semantic HTML  In this development phase you will take the provided text and construct a suitable HTML page structure to suit it and the provided wireframes.  NO CSS is to be added.  Phase 2: Adding Structural Style  In phase 2 you now add the required CSS to style the site appropriately.  You are expected to style the site using Black, White, and Grey (#333333, #666666, #999999 and #cccccc only).  This is to demonstrate the use of CSS to lay out the site without any extra distractions such as colour and images. Use the provided layout wireframes as a guide to how it should be visually structured.  You will validate your custom CSS (not the CSS reset) using the relevant W3C validator.  Evidence of valid CSS will be submitted in the Phase 2 evidence folder.  Screenshots of the final product for this phase will also be included.  Phase 3: Pwity Pweese!  Aside: Imagine “Tweety Pie” saying Pretty Please  In this phase of the project, you are to implement the colour, typography and images to complete the basic page.  You will also amend the content by adding an extra story from phase-3.txt and an image.  In the “aside” you will add the content from phase-3-aside.txt  You will use the W3C validator to ensure your HTML is still valid.  Evidence of valid HTML will be submitted in the Phase 3 evidence folder.  Screenshots of the final product for this phase will also be included.  Once completed check in all your code to your local repository and push it to your private remote.  Phase 4: Shaking Things Up!  In the final phase, you will be implementing a simple problem that uses JavaScript.  The output of this JavaScript will be shown in the Aside area, in position 1.  The styling of the output must be in keeping with the rest of your choices of typography, colour, and other aspects of the site implementation you have undertaken.  Position 1 in the aside must contain a heading, the output from the JavaScript, and a footer. The footer of the section at position 1 must contain your name. |
| Site Structure Requirements |
| All files must apply the naming conventions outlined in Appendix B: Naming Conventions.  Code must apply suitable code style as advised in Appendix A: Code Style Guidelines.  The project has a defined structure outlined in the Appendix C: Site Folder Structure.  The primary page in each phase must be named index.html.  Content details and additional steps will be made more explicit in each subsequent part of the portfolio.  Ensure you DO NOT complete more than one phase of development at any time. |
| General Instructions |
| Complete each step of the document in the order given.  All work must be completed at the CLI, except for starting the development environments.  When a step requires you to confer with the lecturer, ensure you do so, and make notes as required in spaces provided in this document.  Clarifying Requirements  If you require requirements to be clarified, please follow the instructions below:  Send an email using your TAFE email address to:  [f2f@screencraft.net.au](mailto:f2f@screencraft.net.au)  You MUST include the following subject:  C4 Prog: Web Tech Portfolio Phase x  Ensure you replace the x with the phase you are asking about. In this case 3. |
| Answering Questions |
| When a step includes a question, you must attempt to answer it.  There is a minimum and maximum number of words to use for each answer.  Any step that requires answers to be provided will have a space in this document immediately after each step. The answer space will expand with the content you type or images you paste.  Resize images to fit the space provided, ensuring they are still legible.  Do not include a whole screenshot, just the required details.  If a step has more than one question, these maxima and minima are a total for all the questions in that specific step.  All answers must be in complete sentences unless indicated.  *If required, make sure to add any code you’ve written in a separate file to your submission.*  *DO NOT put long pieces of code (over 10 lines) in this document.* |
| Sources of Information |
| In industry, it is good practice to keep track of where information was obtained. This is especially true if it is a written document, or even code.  If you answer any questions using information from web sites, please include the site name and URL (Web site address) after the answer.  Likewise, include the title and author for books and magazine articles.  For example:   * RS Electronics Ltd:  <https://au.rs-online.com/> * Slack API Documentation, Users List Method:  <https://api.slack.com/methods/users.list> |
| Code Storage |
| We advise that you create a private GIT repository on GitHub and use this to store a copy of your work.  This assessment has instructions on setting up version control and a remote (private) repository. Do not initialise any version control until told to do so.  To ensure you have a recent copy of your code you **must** use **AT LEAST TWO** of the following methods, of which a version-controlled copy is REQUIRED:   * Private Git repository,   and one of:   * Cloud Storage (OneDrive within your college Office365), and/or * Keep a copy on a USB thumb drive.   Backing up to One Drive or to USB is best done by compressing the project folder up before copying to either OneDrive or USB. |
| Code Style |
| Please see **Appendix A: Code Style Guidelines** for details on the code style(s) to use for the assessment. |
| Professional Code and Documentation Requirements |
| This document contains appendices that cover the professional requirements when creating files, code, project structures and more.  These requirements must be adhered to.  No external frameworks are allowed in this part of the portfolio.  This means that you may not employ frameworks such as Bootstrap, jQuery, Tailwind CSS, et al in your work. |
| Assessment Structure |
| To complete this assessment, you will be asked to complete four parts.  Do not start subsequent parts until completing and submitting previous part.  These parts include:   * Part 1: Development Phases 0 & 1, Setting up and creating semantic markup. * Part 2: Development Phase 2, Adding basic styling to create desired page layout. * Part 3: Development Phase 3, Adding further style, content, and imagery to enhance page. * Part 4: Development Phase 4, Adding JavaScript to solve a given problem and display result on page. |
| Assessment/Development Process |
| In the steps that are contained in this document, you will design several pages, and create the layout for the home page, with your code being version controlled as you progress.   * Step 1: Set up. * Step 2: Integrate a CSS reset/normalise file into the page. * Step 3: Create the required CSS to facilitate a layout that is similar to the one provided. * Step 4: Test / Validate your CSS (not the reset/normalise file). * Step 5: Compress and Submit your work. |

# Assessment Steps

Complete the steps in the order given.

| **STEP** | **Task to perform** |
| --- | --- |
| 00 | Complete the Front Page Make sure you have filled out the front page of this document.  Familiarise yourself with the content and document your progress in this assessment. This means, **READ** the **WHOLE** assessment **AT LEAST ONCE** before starting any work.  Make notes on the requirements of this assessment, as details appear as you progress through and are not given in one location.  This is very similar to how details emerge during the continuous development interviews and meetings with a client.  At any stage during this assignment, you may consult the stakeholder(s) or their representative(s).  Max Sentences: N/A |
|  | Intentionally left blank |
| 01 | Setting Up for Phase 3 In the previous phase of this assessment, you created suitable semantic and structural HTML to wrap the content provided.  This was saved in a folder named phase-2.  Either:   * Duplicate the phase-2 folder and call it phase-3, or * Copy the contents from the phase-2 folder into an existing phase-3 folder.   Using version control, you will now add the new code to version control, and commit to the local repository:   * Add the duplicated files to version control. * Commit these files to your local repository with a commit message based on the one below: * “feat: Phase 3”   Push the code to your private remote repository.  Open and Read the Additional Content  You are provided with additional content for this stage.  A copy of this content is added to the appendices (Appendix E: Content for Phase 3) at the end of this document and is available in the file phase-3.txt in the provided compressed file that contains the starter structure for the site.  Max Words: N/A |
| 02 | Determine your Site Colour Scheme Determine your colours for the site.  You are allowed up to 4 additional colours besides #000000, and #ffffff.  You may use a web application such as the ones listed below to create tints and shades of the 4 base colours you have selected.  Colour, Tint & Shade Schemer Apps (all retrieved 28/8/23):   * <https://coolors.co/> * <https://uicolors.app/create> * <https://www.tailwindshades.com/> * <https://www.flatuicolorpicker.com/> * <https://colorswall.com/> * <https://www.colourlovers.com/>   Also see the following link for more choices:   * <https://www.diigo.com/user/ady_gould?query=colour+scheme>   Edit the ReadMe.md file and add the colour details to a new section:  Colour Scheme  Create a table in the readme using the following basic pattern (Copy this text into your ReadMe for a head-start).  | Name | RGB | HEX |  |----------|----------------|----------|  | black | 0, 0, 0 | #000000 |  | white | 255, 255, 255 | #FFFFFF |  The section should have a table that shows the name (as you are giving it, the RGB value and the HEX value).  Add the changed/added files to version control.  Add the colours to the table on the next page.  Use a commit message based on the one below (note this is incomplete):   * “feat: add colour scheme for site”   Push the code to your private remote repository. |
| A02 | What are your selected colours? Provide the RGB and HEX versions of the colours.   |  |  |  |  | | --- | --- | --- | --- | | **Name for Colour** | **RGB (rrr, ggg, bbb)** | **HEX (#rrggbb)** | **Sample** | | SAMPLE COLOUR | 107,6,102 | #6B0666 |  | | white | 255, 255, 255 | #ffffff |  | | black | 0, 0, 0 | #000000 |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  |   Tab between cells, and tab on last cell to add new row. Use the fill tool to color final column. |
| 03 | Locate and Select Appropriate Images In this step you will be selecting images for use in the site.  You are required to locate **FOUR** images for the site to match the following basic requirements:   * a HTML/CSS or JavaScript Joke * a joke about user error * a photo to illustrate one of the stories on the site * a joke about programming   All images MUST BE TAFE appropriate and suitable for GENERAL VIEWING.  When you find each image, download a copy of it and add to the assets/images folder in the portfolio file structure.  You must also note the following details for each image in the tables on the next page.   * Image File Name * Photographer / Originator of Image * URL of the page that the image is from * Date retrieved * A sample of the image   Any links with Google/Bing/etc search inks are not valid, you MUST find and give the original URL for the page with the image in the table.  Add the images to version control (this is not generally done, but for this portfolio we are requiring them to be added).  Commit and push the images to your private remote repository with a suitable commit message:   * feat: identify and select images for site |
| A03 | Image Sources Replace the text in each cell with the details indicated. We provide an example for your guidance.   |  |  | | --- | --- | |  | ilya-pavlov-OqtafYT5kTw-unsplash.jpg | | Unsplash - Ilya Pavlov | | <https://unsplash.com/photos/OqtafYT5kTw> | | 28 August 2023 |  |  |  | | --- | --- | | Sample | File Name | | Photographer / Image Origin | | Web Page URL | | Date Retrieved |  |  |  | | --- | --- | | Sample | File Name | | Photographer / Image Origin | | Web Page URL | | Date Retrieved |  |  |  | | --- | --- | | Sample | File Name | | Photographer / Image Origin | | Web Page URL | | Date Retrieved |  |  |  | | --- | --- | | Sample | File Name | | Photographer / Image Origin | | Web Page URL | | Date Retrieved |   (DO NOT delete the final blank line) |
| 04 | Implement Content for Images and Additional Text Using the supplementary text in Appendix E: Content for Phase 3 and in the file phase-3.txt, you are to complete the page by adding the new stories/articles and images.  You should add at least one image to the aside area, and at least one in an article.  Once completed you are to add the updated files to version control and commit them.  An example commit message for the Header could be:   * feat: new content – add new content to the site   Finally push the updates to your remote repository. |
| 05 | Validating the HTML Use the WC3 Validation engine to verify your HTML is valid.  Copy the evidence for validity into the evidence folder inside phase-3.  Screenshots of the final product for this phase will also be included as evidence in the above folder.  Add the evidence folders to the “.gitignore” file in the repository. |
| A05 | Add one or more screenshots of the validation results for your HTML code. |
| 06 | Testing the page During the previous steps, you have created and updated a single web page.  During this it is possible that you have been checking what it looked like on at least one web browser.  You are now to verify that the site still works on at least two browsers that use different rendering engines.  Take a screenshot of the page in the two browsers.  Paste these into the two sections below.  Make sure the images are no larger than 14cm and no smaller than 12cm wide. |
| A06.1 | Which browser is this screenshot from?Screenshot |
| A06.2 | Which browser is this screenshot from?Screenshot |
| A06.3 | Which browser is this screenshot from?Screenshot |
| 07 | Demonstrate to Assessor Demonstrate to the assessor.  Obtain their feedback, update your work as required based on their feedback, ensuring all changes are notes as semantic commits using the “fix:…” tag at the start.  Prepare for phase 4 of the site development. |
| END | Submission of Portfolio Work To submit the portfolio, do the following:   * Save this document with your answers. * Export the pages of your Figma file to PDF(s) * Compress the portfolio folder using 7-Zip * Open Blackboard, locate and open the “AT2-PT1 Por Phase 3” item * Upload this completed assessment document. * Upload the PDF and Word document(s). * Upload the compressed site files. * Click submit.  All answer documents MUST be submitted in Microsoft Office 365’s Word format. It is important that the PDF and Word documents are separate from the portfolio compressed folder as this makes it much easier for assessment. |

# Appendix A: Code Style Guidelines

The following guidelines should be applied to your code as it is developed.

Many may be applied via the use of PhpStorm, PyCharm or similar plugins and code formatting.

### PHP Code (General)

Please refer to the PHP PSRs:

* <https://www.php-fig.org/psr/psr-1/>
* <https://www.php-fig.org/psr/psr-12/>
* <https://www.php-fig.org/psr/psr-4/>

### Applications Built with Laravel

Please refer to the following articles:

* <https://dev.to/lathindu1/laravel-best-practice-coding-standards-part-01-304l>
* <https://dev.to/lathindu1/laravel-best-practice-coding-standards-part-02-a40>

### HTML Code

Please refer to the Google Style guide:

* <https://google.github.io/styleguide/htmlcssguide.html>

Note that PhpStorm and WebStorm will format code to their own standard, which is acceptable.

### JavaScript

Refer to the Google JS Style guide:

* <https://google.github.io/styleguide/jsguide.html>

Note that PhpStorm and WebStorm will format code to their own standard, which is acceptable.

### Python Code

Your code will follow the PEP 8 standard.

PyCharm will format code very close to the PEP-8 standard.

### JSON Code

JSON should be formatted in an appropriate manner.

*Readability Counts   
- Zen of Python*

# Appendix B: Naming Conventions

## HTML, CSS and JS Files and folders

* No spaces.
* Alpha-numeric characters only except minus/hyphen (-) and full stop (.).
* All lowercase letters.
* Use hyphens (dash) between words.

## File extensions

The following file extensions must be used:

|  |  |
| --- | --- |
| HTML pages | .html |
| JS | .js |
| CSS | .css |
| PHP | .php |
| Node | .js |
| React | .jsx |
| Python | .py |
| JSON | .json |
| XML | .xml |

# Appendix C: Site Folder Structure

The diagram below outlines a folder structure for the portfolio from Phase 1 to Phase 4:

# Appendix D: Sample Wireframes

These layouts provide the options you will use in your work.

A basic Mobile First layout (Mobile Phone) and a basic Desktop (1024px wide screen) layout is provided, with options for various components of the page.

Each page has:

* Header
* Navigation
* Main
* Footer

## Basic Layouts for Desktop and Mobile

Desktop Layout on Right, Mobile on Left

 

## Basic Layouts with Articles for Mobile and Desktop

Desktop Layout on Right (3 options), Mobile on Left

 

 

## Header & Navigation Layout Options



## Footer Layout Options (Desktop and Mobile)



## Article Layouts & Aside Layout



## Image Layout



**Aside Section Layout**



## Aside Content Layout



# Appendix E: Content for Phase 3

DOESN'T IT JUST WORK?

Ian Caldewell, a self-styled 'PC tinkerer', refurbishes PCs, and has ways of

acquiring modems, monitors, CPUs, boxes and RAM - to the point where it has

become a pastime consuming most of his leisure time. He now has streams of

people seeking repairs, advice and assistance.

"Recently, I replaced an old power supply for a couple, and, when they came

to collect, they asked whether I made house calls.

I said I could and asked what they needed."

The lady told Caldewell she'd bought a new wireless mouse, and, since it

was the last one on display, it didn't come with a box or instructions.

"I asked her: 'Did you put batteries in it?!'

She hadn't, of course."

MAKE MY DAY, PC

Chris Aitken, a designer and programmer from Camden, NSW, believes his story

proves that tech support is one of the most stressful jobs on earth. He recalls

working for a small internet provider in the late '90s, when one of the customers

was a local police officer.

"He was also an expert in crashing Windows 98. On one occasion, he brought his

tower into the office, sat it on the counter, pulled his service pistol out of

his holster and pointed it straight at the tower, threatening to shoot it.

Another time he put his (by now very nervous) PC tower onto the counter, again

took out his pistol, held it by the barrel and started banging the butt of the

gun onto the top of the computer, quite hard too.

It's no wonder techies go grey - or bald - early!"

This is the first we've heard of someone trying to fix a computer by intimidating it.