|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | AT2-POR-Pt1-SaaS-FED SaaS: Front-End Dev – Portfolio Part 1 | | | | | | | | |
| **Lecturer name** | | | | *Adrian Gould* | | | | | | | | |
| **Student name** | | | | *Taehyun Sung* | | | | | | | | |
| **Student ID number** | | | | *20101299* | | | | | | | | |
| **Telephone contact number** | | | | *0405 868 915* | | | | | | | | |
| **Email** | | | | [**20101299@tafe.wa.edu.au**](mailto:20101299@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** | | *Taehyun Sung* | | | | | | **Date** | | *17/04/2024* | | |
| 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):* | | | |  | | | | | | | |

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|  |
| --- |
| 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. Common:  * Access to Office 365 & Microsoft Word * PhpStorm or similar IDE  PC:  * Laragon (with following components):   + Apache,   + NginX,   + MariaDB 10+/MySQL 8+,   + MongoDB 4+,   + PHP 8.0+,   + NodeJS 14+,   + npm,   + composer 2+ * Web Browsers (Must have **at least** TWO different rendering engines)   + Chromium based: Edge, Chrome, …   + Firefox   + Opera  Mac:  * Laravel Herd * DBengin * 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.*** |
| Assessment Due Date |
| This portfolio item **must** be completed by Session 8, including resits completed by session 10.  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. |
| 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 screenshots, screencasts and other formats as required in this assessment document.  Additional files may be required to be uploaded as part of your submission. |
| Important |
| 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. |
| Scenario |
| You are currently working as an intern for a small Perth-based start-up company called *Incredibly Obvious Technologies*.  As a new intern to the company, they are challenging you to complete a set of tasks.  The first task is to familiarise yourself with their preferred programming languages, Integrated Development Environment, and other systems they employ. |
| General Instructions |
| Complete each step of the document in the order given.  We expect work to be completed with PHP 8.2 or later, PhpStorm, and at least Microsoft Edge (or Google Chrome), and Brave (or Apple Safari on Mac).  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. |
| 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.* |
| Documenting 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.  We also expect references to include assistance gained from discussion boards, forums and similar systems.  We expect you to use a system such as [https://www.mybib.com/](https://www.mybib.com/tools/apa-citation-generator) to generate the APA 6 or APA 7 references for your documentation.  We expect the bibliography entry reference to be included with the question, without the use of the citation.  For example, here is the Bibliography Entry for PSR-12:  www.php-fig.org. (n.d.). *PSR-12: Extended Coding Style - PHP-FIG*. [online] Available at: https://www.php-fig.org/psr/psr-12/. |
| Use of AI |
| Industry also recognises the use of AI in problem solving.  The use of these forms of resource must be tracked and acknowledged.  When referencing AI-generated conversations in your assessments, provide clear context and purpose for including them.  You will also clearly state “AI\_NAME was used in completing this answer.” before your answer text.  For example:   * “ChatGPT 3.5 was used in completing this answer.”   After the completed answer you must include a link to the generated content, for example:   * <https://chat.openai.com/share/788a295f-29db-4009-b96a-962b53170082>   Copy the content of the conversation from the first prompt to the end of the conversation and paste into one of the following document types: TXT file (.txt), or Markdown Document (.md). Alternatively use a browser extension such as “PrintFriendly” to output a copy of the page to PDF.  Save the conversation file with a suitable name, such as SaaS-FED-POR-Pt1-Q3 and when submitting the assessment, upload along with this completed document. |
| Use of Discussion & Chat Systems |
| It is also acknowledged that the IUT Industry heavily relies on chat systems for discussion and assistance.  These discussion systems include, but are not limited to Discord, Teams, Twitter/X, Mastodon and similar applications and web sites.  When you have used any of these systems, you should include your FULL chat transcripts as per the instructions for AI systems. The exception is the requirement for a link to the original if one cannot be created. |
| Code Storage |
| You are required to create a private GIT repository on GitHub and use this to store a copy of your work.  In addition to this, you are to ensure you have a secondary backup copy of your work on external or cloud-based data storage.  To ensure you have a recent copy of your code you must use AT LEAST one of the following methods:   * Private Git repository, and/or * 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.  Many projects will contain libraries that contain thousands or even hundreds of thousands small files that take a very long time to synchronise to cloud storage. |
| Code Style |
| Please see APPENDIX A: CODE STYLE GUIDELINES for details on the code style(s) to use for the assessment. |

# 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). |
| 01 | Enrol in Traversy Media Course You are to enrol in the Traversy Media “PHP from Scratch” course located at:   * <https://www.traversymedia.com/php-from-scratch>   When enrolling in this course, and making your payment, use the following discount code (SPECIALDISCOUNT10) to obtain the course with a US$10 discount. As of 22/02/24 the cost, with discount, is approximately AU$24.  IMPORTANT: In Semester 1, 2024 we are refunding the cost of the course. You will need to apply via the SQuASH Helpdesk system. Please see Appendix R: Refunds for the requirements of obtaining the refund.  You should use your real name for the course as the course completion certificate will contain it and is part of your evidence. |
| 02 | Start a Version Controlled PhpStorm Project Open PhpStorm and use an appropriate method to create a new project.  At college this should be in your C:\Users\STUDENTID\Source\Repos folder.  Name the Project INITIALS-SaaS-FED-POR-Pt1, replacing INITIALS with your initials.  Once the project is created, create a file called ReadMe.md and copy the content from the Appendix M: ReadMe.md into it.  Fill out the sections of the ReadMe that are required, including:  Within PhpStorm initialise version control to use GIT.  Add the ReadMe.md to the files that are version controlled.  Download the provided example .gitignore file from blackboard or the FAQs on ScreenCraft’s SQuASH helpdesk.  Note: If you have already started the course, the ReadMe and .gitignore files may be added now, and the repository initialised. |
| 02 | Complete the Course You are to complete the course over a period of approximately 9 weeks.  Use the following timeline as a guide. You may, and we encourage you to, complete the work ahead of this timeline.   |  |  | | --- | --- | | Session 1 | Intro & Setup  Data Types, Variables & Built-In Functions | | Session 2 | Arithmetic Operators & Functions  Arrays & Iteration  Control Structures & Conditionals | | Session 3 | Functions  OOP - Object Oriented Programming | | Session 4 | Superglobals  Database & PDO | | Session 5 | Workopia Project Start & Custom Router | | Session 6 | Database Class, Fetch & Display Listings | | Session 7 | Namespaces, Controller Classes & Router Refactor | | Session 8 | Create, Read, Update & Delete Listings | | Session 9 | Authentication & Authorization  Final Touches & Extra Content  Wrap Up |   Complete all the sections as given.  On completion, obtain the Certificate of Completion from Traversy Media.  Save a PDF copy of the proof of completion certificate for submission.  On completion of all the above stages, compress your code into a single ZIP or 7ZIP file (ONLY). |
| A02 | Screenshot of the certificate of completion (in addition to submitting the PDF) |
| END | Submission of Portfolio Work To submit the portfolio, do the following:   * Save this document with your answers. * Open Blackboard, locate and open the AT2 Portfolio Task 1 assessment. * Upload the completed assessment document. * Upload the PDF document(s) as part of this submission. * Upload the Compressed Code as part of this submission. * Click submit.   All answer documents MUST be submitted in Microsoft Office 365’s Word format.  The acceptance of the declaration that the work you submit is your own and not completed by a third party. |

# 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.

Further details are available at the SQuASH Helpdesk FAQs.

* <https://help.screencraft.net.au/hc/2680392001>

Note: use the Search box to find articles on code style:

A screenshot of a computer

Description automatically generated

### PHP Code (General) / Applications Built with Laravel

Follow one of these two code standards:

* PHP-FIG PSR-12 <https://www.php-fig.org/psr/psr-12/>
* Laravel Coding Style: <https://laravel.com/docs/10.x/contributions#coding-style>

### HTML Code

Please refer to the Google Style guide:

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

### JavaScript

Refer to the Google JS Style guide:

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

### Python Code

Your code will follow the PEP 8 standard.

### JSON Code

JSON should be formatted in an appropriate manner.

*Readability Counts   
- Zen of Python*

# Appendix M: ReadMe.md

The following content is the basis for a ReadMe.md file for this assessment.

You may find alternatives to this example in the FAQs on the SQuASH HelpDesk (<https://help.screencraft.net.au/hc/2680392001>).

# Project Title

Simple overview of use/purpose.

## Description

An in-depth paragraph about your project and overview of use.

## Authors

Contributors names and contact info

ex. Dominique Pizzie

ex. [@DomPizzie](https://twitter.com/dompizzie)

## Version History

\* 0.2

\* Various bug fixes and optimizations

\* See [commit change]() or See [release history]()

\* 0.1

\* Initial Release

## Acknowledgments

Inspiration, code snippets, etc.

\* [awesome-readme](https://github.com/matiassingers/awesome-readme)

\* [PurpleBooth](https://gist.github.com/PurpleBooth/109311bb0361f32d87a2)

\* [dbader](https://github.com/dbader/readme-template)

\* [zenorocha](https://gist.github.com/zenorocha/4526327)

\* [fvcproductions](https://gist.github.com/fvcproductions/1bfc2d4aecb01a834b46)

# Appendix R: Refunds

We have been directed to inform you that the college will reimburse you for the cost of the Traversy Media PHP Course which has been set as a compulsory part of your study.

Before you request the refund, we need you to do the following:

* Download a copy of the Invoice from Traversy Media
* Look at your Credit Card transactions and take a screenshot or scan of the amount paid in Australian Dollars

Once you have downloaded your invoice and have the details of the credit-card transaction that includes the date, time, amount in AUD (Australian Dollars) and merchant (We DO NOT want your credit card number or other details), you will complete a SQuASH Helpdesk request for the refund.

We will process refunds as soon as possible, but there may be small delays due to internal processes and procedures.

## Downloading your Invoice:

To download your invoice please follow the steps below:

Log into the Traversy Media website (<https://www.traversymedia.com/>)

When logged in, click on the user icon (top right) and click on Settings:

A screenshot of a video game

Description automatically generated

Locate the "Account Information" heading and Click on Purchase History:

A close-up of a screen

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Locate "PHP from Scratch":

A screen shot of a computer

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Click on Download Receipt.

In most cases, this will open the receipt in the browser. If this happens you should be able to save the invoice by using the download icon:

A white arrow pointing down

Description automatically generated

The receipt has the invoice number which you will require.

It also has the date you purchased the course.

You will need this to retrieve the amount you paid in Australian Dollars from your credit card.