Te Hoe Hōkai Pakihi

**Department of Business and Digital Technologies**

BCDE224 Best Programming Practices (Server-Side Programming - PHP)

Assessment One Practical Assessment 1

Semester Two 2022

Initial Due date: Friday, 16 September 2022 Final Due date: Friday, 4 November 2022 Time: 5:00pm

Student Name/ ID ..........................................................................................................

*This is an individual assessment. Ara and its division members reserve the right to use electronic means to detect and help prevent plagiarism. Students agree that when submitting this assessment, it may be subject to submission for textual similarity review to Turnitin.com.*

Submissions received late will be subject to a penalty of 10% of the student’s mark per working day.

This assessment is worth 25% of the total marks for this course. This paper has four (4) pages including the cover sheet.

This assessment relates to the following Learning Outcome(s):

* Demonstrate ability to code to industry standards

# Marking Rubric

|  |  |
| --- | --- |
| 0 | Did not attempt, does not compile, has obvious style defects, gets things wrong, has architectural issues, is not your own work\*  **I do not know about this** |
| 1 | Code from in-class demos  **I’ve heard about this** |
| 2 | Code from referenced PHP tutorials with a unique example  **I’ve researched this** |
| 3 | Code from homework exercises or personal practice –examples which have correct and appropriate usage  **I’ve done this** |
| 4 | Code from assessment –examples of ALL variations of correct and appropriate usage  **I can use this** |

\* If code is from in-class demos or on-line tutorials then you must present evidence (screen shots) that have typed it in yourself and got it to compile.

# Requirements

Create a portfolio of work that shows you use of the following syntax features of the PHP programming language. Every student must create a single MS Word file, as her/ his portfolio of work, containing all code examples for using each syntax feature claimed for marks. Students must submit their MS Word file into the corresponding Dropbox on course Moodle site by the deadline indicated.

**SYNTAX FEATURES**

|  |  |
| --- | --- |
| 1. PHP tags, escaping html, Instruction  separation | <https://www.php.net/manual/en/language.basic-syntax.phptags.php> <https://www.php.net/manual/en/language.basic-syntax.phpmode.php>  <https://www.php.net/manual/en/language.basic-syntax.instruction-separation.php> |
| 2. Variables: basic types, globals, scope, predefined  variables, constants | <https://www.php.net/manual/en/language.types.php> <https://www.php.net/manual/en/reserved.variables.php> <https://www.php.net/manual/en/language.oop5.constants.php> |
| 3. Namespaces, include, require | <https://www.php.net/manual/en/language.namespaces.php> <https://phptherightway.com/#namespaces> <https://www.php.net/manual/en/function.require.php> <https://www.php.net/manual/en/function.include.php> <https://www.php.net/manual/en/function.require-once.php>  <https://www.php.net/manual/en/function.include-once.php> |
| 4. Coding Conventions | <https://www.php-fig.org/psr/psr-1/> <https://www.php-fig.org/psr/psr-12/> <https://pear.php.net/manual/en/standards.php>  <https://dev.w.org.ibadboy.net/coding-standards/wordpress-coding-standards/php/> |
| 5. Arrays, foreach | <https://www.php.net/manual/en/function.array.php> <https://www.php.net/manual/en/language.types.array.php>  <https://www.php.net/manual/en/control-structures.foreach.php> |
| 6. selection | <https://www.php.net/manual/en/control-structures.if.php> <https://www.php.net/manual/en/control-structures.else.php> <https://www.php.net/manual/en/control-structures.elseif.php> <https://www.php.net/manual/en/control-structures.alternative-syntax.php>  <https://www.php.net/manual/en/control-structures.switch.php> |
| 7. iteration | <https://www.php.net/manual/en/control-structures.for.php> <https://www.php.net/manual/en/control-structures.while.php> <https://www.php.net/manual/en/control-structures.do.while.php> <https://www.php.net/manual/en/control-structures.break.php> <https://www.php.net/manual/en/control-structures.continue.php>  <https://www.php.net/manual/en/control-structures.goto.php> |
| 8. functions | <https://www.php.net/manual/en/functions.user-defined.php> <https://www.php.net/manual/en/functions.arguments.php> <https://www.php.net/manual/en/functions.returning-values.php> <https://www.php.net/manual/en/functions.anonymous.php>  <https://www.php.net/manual/en/functions.arrow.php> |
| 9. strict types, type hinting, | <https://www.php.net/manual/en/control-structures.declare.php> [https://www.php.net/manual/en/functions.arguments.php#functions.arguments.type-](https://www.php.net/manual/en/functions.arguments.php#functions.arguments.type-declaration)  [declaration](https://www.php.net/manual/en/functions.arguments.php#functions.arguments.type-declaration) |
| 10. classes, properties, constructors and  destructors, visibility | <https://www.php.net/manual/en/language.oop5.basic.php> <https://www.php.net/manual/en/language.oop5.properties.php>  <https://www.php.net/manual/en/language.oop5.decon.php> <https://www.php.net/manual/en/language.oop5.visibility.php> |
| 11. OO “tricks”: inheritance, static, abstract, interfaces | <https://www.php.net/manual/en/language.oop5.inheritance.php> <https://www.php.net/manual/en/language.oop5.static.php> <https://www.php.net/manual/en/language.oop5.abstract.php>  <https://www.php.net/manual/en/language.oop5.interfaces.php> |

|  |  |
| --- | --- |
| 12. Error handling, try, catch,  throw, finally | <https://www.php.net/manual/en/language.exceptions.php> |
| 13. cookies | <https://www.php.net/manual/en/reserved.variables.cookies.php>  <https://www.php.net/manual/en/function.setcookie.php> |
| 14. sessions | <https://www.php.net/manual/en/book.session.php> |
| 15. REST | <https://www.php.net/manual/en/reserved.variables.server.php> <https://www.php.net/manual/en/function.header.php>  <https://www.php.net/manual/en/function.json-encode.php> |
| 16. Passwords | <https://www.php.net/manual/en/function.password-hash.php> |
| 17. Regular  expressions | <https://www.php.net/manual/en/book.pcre.php> |
| 18. il8n | [https://lingohub.com/blog/2013/06/php-internationalization-i18n-mechanisms-](https://lingohub.com/blog/2013/06/php-internationalization-i18n-mechanisms-tutorial)  [tutorial](https://lingohub.com/blog/2013/06/php-internationalization-i18n-mechanisms-tutorial) |
| 19. string functions | <https://www.php.net/manual/en/function.htmlentities.php> <https://www.php.net/manual/en/function.htmlspecialchars.php> <https://www.php.net/manual/en/function.rtrim.php> <https://www.php.net/manual/en/function.rtrim.php> <https://www.php.net/manual/en/function.explode.php> <https://www.php.net/manual/en/function.implode.php>  <https://www.php.net/manual/en/function.join.php> |
| 20. MySQL  Improved Extension | <https://www.php.net/manual/en/book.mysqli.php>  <https://www.w3schools.com/php/php_mysql_intro.asp> |