AP 3: WEB APPLICATION AND DEVELOPMENT **PROJECT NO. 1**

Submission date: On of before Oct. 31, 2024 Total points: 100

Objective:

This project aims to evaluate students' comprehension of fundamental PHP concepts by applying their knowledge given some practical tasks. Through this project, students will demonstrate their ability to implement key PHP functionalities and principles, reinforcing their understanding of the topic.

Submission Instruction:

- The project is INDIVIDUAL.
- Deploy this project in a free hosting site.
- Submit the project link on or before the deadline date.
- At the bottom of every page, the creator's name and the date created must be included. CODE: W0wnig4n4j1d
- Strictly, only use HTML, CSS, and basic PHP in coding.

MAIN PAGE DISPLAY

- Display all content within the box, including the student's full name, course, year, and section.
- Create hyperlinks for items 1 through 10.
- Ensure that clicking each item redirects to a new page.
- Each item should lead to a unique problem the user must solve on the corresponding page.
- Be sure to return to the main page after visiting the other pages.

Your name: _____
Course/Yr/Section: _____

1. Curriculum Vitae
2. The Use of Variables
3. Manipulating Numbers
4. Using Math Functions
5. Using Constants
6. Selection Statements
7. Loop Statements
8. User-defined Functions
9. Single-dimensional Array
10. Two-dimensional Array

PAGE 1. Curriculum Vitae (CV)

Task: This page will display the student's CV.

PAGE 2. The Use of Variables

Task: This page will declare 20 variables that will store five whole numbers, five floating point numbers, five strings, and five characters. Assume that each variable represents something. For example, the five strings may represent the description of the five items. The other values could be related to item attributes in this assumption. Display all the values with the corresponding message.

PAGE 3. Manipulating Numbers

Task: Compute the midterm, tentative final, and final final grades of the students in CTU. Assume that each grading period may have three to five quizzes, one to

two projects, and the major exam. The grade for each grading period is computed as follows:

grade = average quizzes X 30% + average project X 20% + midterm exam X 50%
final-final grade = average of midterm and tentative final grade

PAGE 4. Using Math Functions

Task: Declare five floating point numbers and five whole numbers. Look for at least 15 Math functions and demonstrate the use of these functions using the declared variables. The results must be displayed.

PAGE 5. Using Constants

Task: Research at least 10 constant values and assign them to 10 named constants. Display these values with examples of how to use them.

PAGE 6. Selection Statements

Task: Initialize five string variables and five integer variables. Be able to display the following:

- Five strings in ascending order
- Five strings in descending order
- Sum, product, and average of the five numbers if the first number is divisible by the fifth number; otherwise, display the numbers in ascending order.

Note: Do not use predefined sort functions to arrange the strings and numbers.

PAGE 7. Loop Statements

Task: Declare the whole number variables n and m. Be able to display the following:

- Display n x m multiplication table using for loop.
- Display n Fibonacci series and m Fibonacci series using while loop.
- Compute the factorial of n and summation of m using do…while loop.

PAGE 8. User-defined Functions

Task: Look for a problem and solve it. The solution must include the use of at least ten user-defined functions. Display the selected problem on the page and the functions created with an explanation of how they are used.

PAGE 9. Single-dimensional Array

Task: Create a parallel array with ten people's information, including their name, age, sex, and nationality. Sort them in ascending order using the name as the key. Display both unsorted and sorted lists. Use a user-defined function in performing the sort and display.

PAGE 10. Two-dimensional Array

Task: Create an NxN array and store NxN integers in each cell. Be able to display the following:

- The sum of each row and column
- Average of each row and column
- Sum and average of the two diagonals
- The smallest and the largest number in each row and column
- Overall sum and average
- Overall smallest and largest numbers