



AAPP009-4-2-WDT Web Development Group Assignment

Course Learning Outcomes	Assignment Component
CLO1 Demonstrate the principles and technologies of the Internet and World Wide Web. (C3, PLO2)	Documentation
CLO2 Construct an effective and interactive web application by using the scripting languages. (P3, PLO3)	Implementation

ASSIGNMENT BRIEF

Your Web Development Team is tasked with the development of a fully functional web application that serves as a platform for promoting and facilitating community service initiatives. **Community service** refers to voluntary activities aimed at improving the well-being of a local community, addressing social issues, and supporting those in need. This can encompass a wide range of activities, including volunteering, charitable work, environmental conservation, and more.

You have the freedom to choose the title of the application. However, it should adhere to the following guidelines:

- **Client-side scripting:** The application should effectively utilize client-side scripting languages, specifically HTML, CSS, and JavaScript.
- **Server-side scripting:** PHP should be used as the server-side scripting language.
- **Database Management:** MySQL should be employed for database management.
- **Interface Design:** The interface design should adhere to good design principles.
- **Navigation:** The application should feature a fully functional and user-friendly navigation system.
- **Multimedia Content:** Where necessary, appropriate multimedia content should be incorporated.

Please note that your team has complete discretion in determining the scope and contents of the chosen title. This discretion should be reflected in the application's design and functionality. Please select your group number on the Moodle course page. Each group should consist of **4 to 5 members**.

WEB APPLICATION REQUIREMENTS

The web application must fulfill the following criteria:

- The web application should demonstrate database processing capabilities, including user login functionality and the ability to insert, read, update, and delete records.
- Your web application must be designed to accommodate various types of registered users. At a minimum, there should be two distinct user roles within the application.
- Form validation should be implemented to ensure data integrity.
- PHP and MySQL are required for server-side scripting and database management, respectively.
- User Interface (UI) frameworks, such as Bootstrap, Foundation, Skeleton and so on, are **not permitted** for use in the assignment.

SUBMISSION

This assignment requires three components to be submitted:

1. Proposal (25th March 2024)
 - Title of the Web Application
 - Objectives of the project
 - Specifications for the end user
2. Preliminary Drafts (8th April 2024)
 - Entity Relationship Diagram (ERD)
 - Data Dictionary
 - Wireframes for the primary layouts of the web pages
 - Flowchart
 - Website Navigational Structure
3. Final Report and Web Application Project Files (2nd June 2024)

The final report should include the following:

- Format:
 - Typeface: Please use Times New Roman. You may use bold, italic, and underlined text for emphasis and to enhance readability.
 - Font size: The standard font size should be 12, except for titles and headings.
 - Spacing: Maintain a spacing of 1.5 lines between the texts within a paragraph.
 - Alignment: The text should be justified.
 - Headers and footers can be utilized for additional information.
 - The document should be numbered for easy reference.
 - A cover page is required. Your cover page should include the following details:
 - Your Name and ID
 - Intake code
 - Subject
 - Project Title

- Recommended Content
 - **Table of Contents:** The table of contents should list each topic title along with its corresponding page number.
 - **Introduction/Project Plan:** This section should introduce your project, including its objectives, scope, end-user specifications, and the major functions of the web application.
 - **Design:** Please include the **final version** of Entity Relationship Diagram (ERD), Data Dictionary, Wireframes for the main layouts of the web pages, Flowchart and the Website Navigational Structure that aligned with the final implementation. Each component should be accompanied by an appropriate description.
 - **Implementation:** This section should provide a detailed explanation of the source codes for the major features of the web application.
 - **User Guidance:** Include screenshots of the user interface and descriptions of each.
 - **Conclusions:** Summarize your project and discuss potential future enhancements.
 - **References:** List all sources referenced in APA format.

All submissions must be submitted via Moodle.

PRESENTATION

- A presentation is scheduled to take place following the submission (**Starting from week of 3rd June 2024**). The allocation of presentation slots will be announced as we approach the end of the semester.