

Trimester March 2025 (T2510)

Assignment (60%)

Topic:

MMU Talent Showcase Portal

ASSIGNMENT BRIEF

Your team has been selected to develop a full-featured web application called **MMU Talent Showcase Portal**, a platform designed to highlight, promote, and connect the diverse talents of MMU students. The system will allow students to create personalized profiles, upload portfolios (artwork, videos, writing, coding projects), browse other talents via an e-catalogue, and engage in community support via comments, forums, and service requests.

The application must include an accessible and easy to use frontend, a secure login system using forms-based authentication, and admin-level maintenance for key modules. This platform will serve as a digital gallery and networking space, enabling collaboration and recognition across faculties.

To run this web app, you must have installed a virtual server i.e. XAMPP on your PC (for Windows).

You have to 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.
- **Server:** XAMPP server
- **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 eBwise course page by informing your lecturer. Each group should consist of **4** members only. Each member is expected to

develop a minimum of 2 web pages. Under the “Individual Contribution” assessment criteria, each group member must deploy at least **THREE features** individually to be assessed for this assignment:

Key Features (to be implemented based on group selection):

- **e-Catalogue** of talents with search and filter by category (e.g., Music, Tech, Art, Writing).
- **User Profile Maintenance** – students update their bios, talents, and contact details.
- **Resource Sharing** – users can upload/download files such as CVs, demo reels, or project files.
- **Communication Features** – optional forum, messaging board, or announcement section.
- **Shopping Cart** – for students offering paid gigs or art sales (e.g., commission requests).
- **Feedback Form** – users can submit support queries or feedback.
- **FAQ Section**
 - User submission of questions.
 - Admin management of FAQ (add/edit/remove).
- **News & Announcements** – Admin posts updates on upcoming talent events or workshops.
- **Photo/File Uploads** – for profile pictures, talent portfolios, or event announcements.
- **Admin Dashboards** – maintain product/talent listings, services, and user reports.

WEB APPLICATION REQUIREMENTS

The web application must fulfill the following criteria:

1) HTML, CSS & JavaScript

- Usable Interface: Design a visually appealing and intuitive user interface using HTML, CSS, and JavaScript to ensure easy navigation and interaction with the system.
- Use JavaScript for client-side validation.
- One webpage on group members’ details:
 - Information in this section should be structured using appropriate semantic markup and a table. This section should be styled appropriately to demonstrate your CSS skills.
 - Name: ABC
 - Student ID: XXX
 - Section: TC1L or TC2L
 - Photo of you within an HTML figure element
 - Contact: A mailto link to your student email
- The site should be styled appropriately to demonstrate your CSS skills.
- User Interface (UI) frameworks, such as Bootstrap, Foundation, Skeleton, Tailwind, Bulma and so on, **are not permitted** for use in this assignment.

2) PHP & MySQL:

- Use PHP to include common webpage code (e.g. menu, header, footer code)
- Include the ways that 'state' can be maintained between webpages.
- 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.
- The web application should demonstrate database processing capabilities, including user login functionality and the ability to insert, read, update, and delete records.
- Form validation should be implemented to ensure data integrity. Use PHP for server-side validation to validate data sent in the "registration" form and if there are any errors, provide user feedback.
- Database Integration: Utilize MySQL to store recipe data, user information, and ingredient details. Implement proper database schema design to ensure data integrity and efficiency.
- Security Measures: Implement appropriate security measures, such as data validation, to protect against common web vulnerabilities like SQL injection and cross-site scripting (XSS).

DOCUMENTATION REQUIREMENTS

- Provide clear instructions on how to use the system, including registration, adding/editing, and searching. Include a brief overview of the project structure, technologies used, and any additional features implemented.
- Sources / References:
In this assignment, you may use material from other web sites, but the source of all material must be acknowledged. This acknowledgement should be immediately after the material and include a hyperlinked URL to the original source. The text of the hyperlink reference can be a short name, but the hyperlink must work. (Normally permission must be given before re-publishing content, but your websites are not live and are not published.)

Note: While the general idea of a talent showcase app is not entirely novel, the specific features and implementation details can be customized to make the project unique. You are encouraged to add your own creative twists and functionalities to differentiate your solutions from existing ones.

Additionally, understand the importance of writing original code and avoid direct copying from online sources.

For your final submission you will need to submit the complete web application with functional requirements above completed, together with a technical report outlining your web application. You will need to prepare a presentation to showcase and demonstrate your web application as part of the assessment too.

SUBMISSION

This assignment requires three components to be submitted:

1. Proposal (**1 May 2025**) (Week 6) (Refer to sample proposal template)

- Title of the Web Application
- Objectives of the web app
- Specifications for the end user

2. Preliminary Drafts (**16 May 2025**) (Week 8)

- Entity Relationship Diagram (ERD)
- Data Dictionary
- Wireframes for the primary layouts of the web pages
- Website Navigational Structure

3. Final Report and Web Application Project Files (**20 June 2025**) (Week 13)

The final report should include the following:

- Format:
 - Typeface: Please use Aptos. 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:
 - Each member's name and ID
 - Term: 2510
 - Subject: CIT6224 Web Application Development
 - Assignment Title:

Submission Guidelines:

- Submit the entire project folder, including all source code files, database schema, and any necessary configuration files.
- Provide clear instructions on how to set up and run the web application locally for testing purposes.
- Include a brief documentation file (e.g., README.txt or README.md) explaining the functionality of the application, how to navigate through it, and any additional features implemented.

Rules

- 1) You need to incorporate HTML, CSS, JavaScript, PHP, and database into the development of your web application. Web application frameworks are not allowed.
- 2) **Plagiarism is not tolerated.** If any web application and report is found to be a copied version of any other group or online source a **ZERO mark** will be given.
- 3) Every group is required to submit a **zip file** which contains the technical report and web app project (source code and database).
- 4) Deadline for Assignment is **23:59 on FRIDAY 20th June 2025**.
- 5) You will need to choose a presentation slot for your group presentation which will start at the beginning of Week 14. During your presentation, you may be asked to explain your code to illustrate your understanding of your web app's code.
- 6) While the requirement is for you to come up with a web application, groups that came up with a mobile-friendly web app will have an advantage over the ones without.

Recommended Content

- **Table of Contents:** The table of contents should list each topic title along with its corresponding page numbers.
- **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, 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 Algorithm / pseudo code 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 eBwise.

PRESENTATION

- A presentation is scheduled to take place following the submission (from **23 June 2025 – 26 June 2025**). The allocation of presentation slots will be announced as we approach the end of the semester.

Evaluation Criteria:

- Refer to Assignment Marking Scheme file.