UNIVERSITI
TEKNOLOGI
MARA

IMS566
ADVANCED WEB DESIGN DEVELOPMENT AND
CONTENT MANAGEMENT

INDIVIDUAL ASSIGNMENT GUIDELINES

1. **The Objective of the Project**
    This project requires students to demonstrate their understanding of advanced web design principles and content management concepts by developing a functional web application interface. Students must apply the theories, techniques, and tools learned in lectures to build a small-scale but professional web application prototype.

2. **Project weightage**
    This individual project carries **20%** marks.

3. **Project Scope & Requirements**
    Each student must design and develop a web application interface using any suitable theme/system (e.g., student portal, e-commerce, library system, task manager, internship tracker, etc.). The web application must include at least the following:
    3.1 Authentication Page (Login/Register)
    a. Authentication can be simulated with hardcoded credentials (no database required).
    b. A clear user interface with error feedback (e.g., invalid username/password).
    3.2 Navigation Menu
    a. A consistent menu/navigation bar that links all pages.
    b. Use responsive design (works on desktop and mobile).
    3.3 Dashboard Page
    a. A landing page after login that displays key information/summary.
    b. Must include at least one visual element (chart, etc.).
    3.4 Data View Pages (Minimum 2)
    a. At least two pages displaying different datasets (e.g., a list of users, products, tasks, or articles).
    b. Apply tables, lists, or grids to present data clearly.
    3.5 Data Visualisation Component
    a. Include at least one chart, graph, or infographic (using Chart.js, ApexCharts, or similar).
    b. The visualisation must be meaningful (not random).

4. **Technical Requirements**
    4.1. Front-end Framework: Must use Bootstrap 5, Tailwind CSS, or another modern framework.
    4.2. Code Organisation: HTML, CSS, and JavaScript should be structured properly and commented.
    4.3. Responsive Design: Pages must be mobile-friendly.
    4.4. Content Management: Show awareness of content organisation (titles, metadata, structured sections).

5. **Deployment**
    5.1. Upload your project repository to GitHub.
    5.2. Publish your project using GitHub Pages.
    5.3. Submit your GitHub Pages live link (e.g,
        https://username.github.io/projectname/) and GitHub Repository link.

6. **Deliverables**
    6.1. Live website link (GitHub Pages).
    6.2. GitHub repository link (must contain source code).
    6.3. Documentation file (README.md) with:
        a. Project title & description.
        b. Features included.
        c. Instructions to test login.
        d. Frameworks/libraries used.

7. **Submission**
    Week 8

8. **Software Uniformity**
    Students are expected to use **Google Chrome** as the web browser for development and testing purposes. This ensures uniformity on a student and lecturer basis. Students can download Google Chrome from https://www.google.com.my/chrome/

END OF INSTRUCTION

Appendix 1: Evaluation Rubrics

Criteria	Excellent (4)	Good (3)	Fair (2)	Poor (1)	Marks
Design & Creativity (4 marks)	Very creative, professional layout, strong use of UI/UX principles	Attractive design, mostly user-friendly	Functional but lacks design consistency	Basic, unattractive, and difficult to navigate	/4
Authentication (2 marks)	Fully functional, with clear error handling & clean UI	Works with minor UI/logic issues	Minimal login function, no error handling	Missing or broken	/2
Navigation & Menu (2 marks)	Clear, responsive, consistent on all pages	Mostly consistent, minor issues	Limited navigation, not fully responsive	Missing or confusing	/2
Dashboard (3 marks)	Informative, visually appealing, includes summary & visual	Functional dashboard with minimal visualisation	Very basic dashboard, lacks useful info	Missing	/3
Data View Pages (3 marks)	Two or more well-structured data views with clear formatting	Two pages available, but some formatting issues	Only one data page or poorly displayed	Missing	/3
Data Visualisation (3 marks)	Interactive & meaningful chart/visualisation	A functional chart adds value	Basic chart with limited relevance	Missing	/3
Footer & Content Management (2 marks)	Professional footer, proper content structure & metadata	Footer included, content fairly organised	Footer present but minimal, poor content management	Missing footer & weak content organisation	/2
Technical Quality (Code & Responsiveness) (1 mark)	Clean, well-structured, responsive across devices	Mostly clean, some responsiveness issues	Code is unorganised, with limited responsiveness	Poor coding, not responsive	/1
				TOTAL	