

College of Engineering
Computer Science & Eng. Dept.
Course: CMP 257-Web
Application Programming
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Homework 1: Web-based Graphical User Interfaces

➤ Objectives:

- To build web-based graphical user interface using HTML, CSS and JavaScript.

Hand in: upload your HW on iLearn:

- One clear and organized solution document (paste all code and **screenshots of the program working**) and indicate where did you use JavaScript.
- Your code should be well documented with comments where appropriate.
- A zip file including all your code
- You are **NOT allowed** to use ChatGPT or any AI generative tool to generate the code for **part A** and you are not allowed to copy and paste the solution from the internet, this is a violation of AUS academic integrity. However, you are allowed to seek help online to find out how things are done, but the code should be original as a result of your own working, you can include references where applicable.

Due Date: Monday 6th Oct, at 11:59 PM. Late submissions will incur a **10% penalty per day**. The submission **link will be removed 48 hours after the deadline**. Email submissions will not be accepted.

Part A:

Personal Portfolio Web Page

Create a personal portfolio web page that showcases your skills, projects, hobbies and contact information. This portfolio is intended to act as **an online resume** to help you stand out when applying for jobs in your chosen field

Requirements:

- You have to use HTML for structuring, CSS for styling, and JavaScript for interactivity.
- Using Bootstrap is optional, but **it is recommended to use the bootstrap grid system to assist with layout** and positioning.
- Ensure your page is professional and adaptive to different screen sizes.

- You have to use JavaScript to add some interactivity, but it has to be relevant and appropriate with the professional aspect of your page. **You should at least show evidence of:**
 - Manipulating the content of the web page using JavaScript
 - Use Event listeners.

Content Guidelines:

- You should include links to your GitHub repositories to showcase your projects
- Include email address and any relevant social media profiles.
- Include at least one image element.
- Set a font and a background color for your portfolio.
- Apply hover effects
- Add a browser icon (favicon) to your page.

Part B:

After completing your portfolio, Generate a similar portfolio using an AI tool (e.g., ChatGPT). State which AI tool you used, provide the **prompt(s)** you used and paste part of the AI-generated code and provide a screenshot of the generated portfolio (Note do not use your code in the prompt). Then, write a short comparison between your work and the AI's. Focus on differences in structure, design choices, readability, and quality.

Rubrics out of 45

Criteria	9-10	7-8	4-6	0-3
Use of HTML and CSS	Excellent use of HTML for structure, CSS is creative, professional and fully responsive. Visually appealing.	Good use of HTML and CSS; mostly professional and responsive with minor design inconsistencies.	Basic HTML structure used; CSS is functional but lacks professionalism or responsiveness.	Poor HTML structure; CSS lacks responsiveness and not visually appealing.
Interactivity with JavaScript	JavaScript is effectively utilized for at least 2 relevant interactions.	JavaScript is used for 1 or 2 basic interactions. Minor issues with functionality or implementation	Minimal or Basic JavaScript interactivity is present but lacks relevance	No JavaScript implementation or the interaction is not functional
Content and Relevance	Content is concise, clear, well-organized and demonstrates a clear purpose. All required elements are included	Content is mostly present and relevant; minor omissions or organizational issues	Content is present but lacks clarity or completeness; important elements may be missing	Content is irrelevant, incomplete, or poorly organized
Code Quality & Documentation	Code is well-organized, easy to	Code is mostly organized and	Code is somewhat organized, but	Code is disorganized, hard

	read and follows basic best practices. Comments are used effectively to explain the code's purpose.	readable. Some documentation present	lacks clarity or documentation	to read with minimal or no documentation
AI Comparison & Reflection (out of 5)	5 pts: Clear AI prompt provided, AI output included, and thoughtful comparison (differences in structure, design, or quality explained)	3–4 points: AI prompt and output provided, but comparison is shallow or incomplete.	1–2 points: Minimal effort, vague or off-topic comparison.	0 points: Not attempted.