COMP602: ASSIGNMENT 2, WEB DEVELOPMENT (SUPERVISED)

AROMATAWAI TUATAHI | ASSESSMENT – WEB DEVELOPMENT

Module name:	Web Development
Module code:	COMP602
Weightings:	This assessment is **weighted 35%** of the total module mark.
Pass criteria:	You are required to score a minimum of 50% average across all weighted assessments AND a minimum of 40% average across all supervised assessments.

LEARNING OUTCOMES

This assignment contributes to the learning outcome one and four:

2. **Examine and apply web development programming languages in the development of a website.**
    a. Apply a responsive and mobile-friendly design using web development techniques in order for the website scale to many screen sizes.
    b. Using JavaScript to add interactive and functional elements like sliders, or dynamic content.

3. **Create and apply multimedia solutions in website development.**
    a. Using multimedia elements (e.g., images, videos, icons, graphics) to convey information and engage visitors effectively.
    b. Using CSS techniques to create visual effects
    c. Using multimedia accessibility by providing alternative text (alt attributes) for images and captions for videos.

4. **Examine current web practices used in the industry and apply this to the development of a website**
    a. Looking into industry-standard tools, frameworks (e.g., Bootstrap)
    b. Explore version control systems (e.g., GitHub) to track changes and collaborate in the development for web.

ASSESSMENT SUMMARY

Now, it's time to apply the designs. The focus of this assessment is converting the designs from assessment one into an actual website for assessment two.

ASSESSMENT TASK

Web structure, HTML and GitHub setup

- Basic structure of the website using semantic HTML tags:
    - Header
        - Client name or business
        - Client Logo
    - Navigation
        - Intuitive to use
        - No broken links,
        - Well labelled links
    - Footer
        - Copyright symbol
        - Client name or business
- Have required pages based on assessment one.:
    - Home
    - About Us
    - Services/Expertise
    - Contact
- Setup and use GitHub
    - Login or sign up into GitHub
    - Create a new repository
    - Load web project to the new repository

Bootstrap implementation and CSS

- Insert the CDN Bootstrap to use Bootstrap for the website
    - Go to https://getbootstrap.com/docs/5.3/getting-started/introduction/#cdn-links
    - Copy the CSS CDN link
        - Paste the CSS CDN link into the <link> tag in the <head> tag
    - Copy the JS CDN link
        - Paste the JS CDN link in the <script> tag
- Integrate the Bootstrap framework into the website
- Use Bootstrap components like the
    - navigation bar
    - grid system
- Apply CSS styles
    - Use external CSS via <link> tag

Multimedia

- Have images using the <img> tag (where appropriate)
- Have embedded video(s) using <iframe> tag (where appropriate)
- JavaScript applied
    - Use external link for JavaScript
    - Use JavaScript to demonstrate your knowledge of how to apply:
        - animation/s
        - interactions with or without validation

Contact form and function

- Create a functional contact form on the Contact Page using HTML and JavaScript.
    - The form should have the following inputs:
        - Name
        - Email
        - Phone number
        - Text area for messages
        - Submit button
        - Reset button
    - Validate the form:
        - Ensure that name field validates name only, and/ or that it's not empty
        - Ensure that email field validates email only, and / or that it's not empty
        - Ensure that Phone number field validates Phone number only, and/ or that it's not empty
    - Form function
        - If any of the fields are empty, show a message stating : "Please fill in the required fields"
        - If the form is correct, then have a message, from the Submit button stating: "Thank you for contacting us, we will be in touch shortly"

Testing on browsers

- Test the website on different web browsers
- Identify which browsers you tested your website on – you can add this information as a comment on your Home.HTML page.

Code Quality and format

- Code format
    - HTML indentation and comments
    - CSS indentation and comments
    - JS indentation comments

- Have correct folder structure.
    - CSS files in CSS folder
    - JS files in JS folder
    - Images in Img folder
    - Other media in media folder
    - HTML file in root folder

Presentation

- Present final result to the client and tutor, during class-time
    - Demonstration/ walkthrough website
    - Time for questions and feedback with the developers

DESIGN GUIDELINES

1. Use semantic HTML tags.
2. Use CSS Bootstrap toolkit to help develop the website
3. Use CSS to style the website according to the designs of assessment one.
4. Use responsive design techniques for the website to scale to different screen size.
5. Use JavaScript for interactions and/ or validation
6. Use correct folder structure

SUBMISSION FILES AND GUIDELINES

Refer to the Timetable on Moodle for Assessment Due date.
The Time allocated to this Assignment is 4 working weeks from the date the assignment is handed out. **NOTE:** This allocation is based on the fact that 5.5 hours per week is self-directed study time (i.e. in your own time). An additional 1.5 hours per week will be allocated to you in class-time, for which you must be present.

1. Prepare a compressed folder (e.g., ZIP) with all HTML, CSS, JavaScript files, images, and any other files used for the assessment.

2. Share the link to your GitHub repository and/ or website

Please use the following naming convention:

- A2_yourName_teamMemberName

Please submit:

- The zipped folder

MARKING SCHEDULE:

Criteria	Marks
Design Implementing	**10**
Design fidelity	**5**
Website matches the design, if not then explain/ show reasons	5
Responsive and accessible design	**5**
The website is responsive for different screen sizes and devices	5
Function and interaction	**25**
Navigation and page structure	**10**
Navigation menu is functional and intuitive	10
Interaction and user experience	**10**
smooth transitions, animations, or other interactive elements are in the website	10
Contact from and social media links	**5**
The contact form is working correctly and is it user-friendly	3
Social media links are coded correctly	2
Code quality and format	**40**
HTML and semantic structure	**5**
The HTML code is indented and commented	3
Semantic HTML tags are used correctly	2
CSS styling	**5**
The CSS code is indented and well-commented	2
External CSS used	1
CSS classes and IDs are used correctly	2
JS implementation	**15**
The JavaScript code is indented and well-commented	6
External JavaScript used	3
JavaScript used for interactivity and/ or validation	6
Bootstrap integration	**15**
Bootstrap integrated into the website correctly	10
Shows understanding of Bootstrap classes	5
GitHub setup	**10**
GitHub account is created	5
GitHub repository is created and used	5
Presentation	**10**
Content is clear	**5**
Client sign-off	**5**
Hosting	**5**
The website is launched	5
Total marks for assessment	100