



## Portfolio Website for Web Technologies Projects

ISYS3004 Business Web and Mobile Technologies

### Objective

The objective of this assignment is to demonstrate the fundamental web technologies used in the development of a portfolio website. The students will use the web technologies they have learned throughout the course to create a portfolio website showcasing their projects and skills.

### Portfolio Website

The students will be required to create a portfolio website that includes the following pages:

- **Home page:** This page will provide an overview of the website and showcase the student's personal brand. It should include a brief introduction, profile picture, and links to social media profiles.
- **About page:** This page will provide more information about the student, including their education, work experience, skills, and interests.
- **Projects page:** This page will showcase the websites we have built in class this semester<sup>1</sup>. Each project should include a title, description, a list of technologies and techniques used to create the website, screenshots, and a link to the live website and GitHub repository.
- **Contact page:** This page will include a contact form, email address, and other relevant contact information.
- **Reflection page:** This page will include the student's reflection on the development of the portfolio website and include any challenges they faced and how they overcame them, as well as any successes they had.

### Deliverables

The assignment requires the submission of three essential deliverables:

- A portfolio website (including both the development and deployed versions)
- A PDF version of the website
- An HTML and CSS Validation Report
- A Non-Compliance Report

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<sup>1</sup> In total, there are six sites, each with their own styling. The initial HTML page has two CSS files that result in two distinct versions of the page. The Rock-Paper-Scissors, Flatland, ToDo, and RSS reader sites all have their unique styling that sets them apart.

The portfolio website showcases the student's proficiency in web development and design. The website should be fully functional and responsive while adhering to the Business Web Technologies Style Guide<sup>2</sup> industry standards, for accessibility and usability.

The HTML and CSS Validation Report is a critical document that evaluates the website's code using W3C validators for HTML and CSS documents. The report should provide a summary of the validation results, highlighting any errors or issues that need to be addressed. The Non-Compliance Report is a formal document that outlines any deviations or violations of the established guidelines for the assignment. The report should include details of the non-compliance and recommendations for corrective actions to prevent similar incidents in the future<sup>3</sup>.

Together, these deliverables play a crucial role in assessing the student's skills in web development and design, promoting accountability, and ensuring compliance with industry standards.

## Technical Requirements

The portfolio website should be developed using the following web technologies:

- **HTML:** The website should be developed using HTML to create the structure of the pages.
- **CSS:** The website should be styled using CSS to improve the visual appearance of the pages<sup>4</sup>.
- **JavaScript:** The website should include interactive elements using JavaScript, such as form validation and animations.
- **Responsive Design:** The website should be designed to be responsive, meaning it should adapt to different screen sizes and devices.
- **Accessibility:** The website should be designed to be accessible to all users, including those with disabilities.
- **Development & Hosting:** The website must be developed and tested locally while ensuring that it can still be deployed on Netlify<sup>5</sup> free Starter plan<sup>6</sup>.

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<sup>2</sup> The Business Web Technologies Style Guide is available on the units Blackboard site.

<sup>3</sup> This information can be useful for instructors to identify patterns of non-compliance and to provide additional support to students who may need it.

<sup>4</sup> Although students can utilize frameworks such as Bootstrap, Materialize CSS, or Tailwind CSS to expedite the development process, they must still exhibit proficiency in implementing and comprehending the fundamental web technologies mentioned above.

<sup>5</sup> It is necessary for the website to be hosted on Netlify since it serves as the production platform for the project. However, it's also essential that the website can be accessed from a local filesystem. This is because the website's development and testing stages should be carried out in a local environment to ensure its proper functioning before it's deployed on the production platform. Therefore, the website must be developed and tested locally while ensuring that it can still be deployed on Netlify when necessary.

<sup>6</sup> To ensure academic fairness and consistency, students are not permitted to utilize a paid plan on Netlify. Additionally, Netlify serves as our client hosting solution, which means it's also our production platform. As a result, there could be resource limitations, and it's essential to ensure that the development site can be deployed to our production platform.

- **Industry Best Practices:** The website should be developed following industry best practices for web development, including clean and maintainable code, proper use of semantic tags, and good file organization.
- **W3C Validation:** The website should be validated against W3C guidelines for HTML and CSS.

## Submission

The two reports required for the completion of the assignment, namely the HTML and CSS Validation Report and the Non-Compliance Report, must be submitted in either Word or PDF format. To ensure academic integrity, these reports will be submitted via a Turnitin link provided on the Blackboard platform.

In addition to the reports being submitted via Turnitin link on Blackboard, the development website as a zip file must also be submitted via a separate link on the Blackboard platform. The students must ensure that the development website is compressed as a zip file and includes all the necessary files for running the website locally. The link to the live site must be included in the comments section at the time of submission, providing the instructor with easy access to the live site. In addition to the live website, please submit a document consisting of 5 PDFs, one for each page on the website. The PDFs should accurately reflect the appearance and content of the website pages. The 5 PDFs should be combined into a single PDF document and submitted via a Turnitin link provided in Blackboard.

In summary you need to submit:

- HTML and CSS Validation Report via Turnitin.
- Non-Compliance Report via Turnitin.
- Development website as a zip file submit via Blackboard.
- Live link to website via comment section when submitting the zip file.
- PDF document containing the site pages via Turnitin.

## Grading

The portfolio website will be graded based on the following criteria:

- **Technical Requirements:** Did the student use the required web technologies correctly and effectively?
- **Design:** Is the website visually appealing and user-friendly?
- **Content:** Does the website provide relevant and informative content about the student and their projects?
- **Accessibility:** Is the website designed to be accessible to all users?
- **Responsiveness:** Does the website adapt well to different screen sizes and devices?
- **Reflection Page:** Does the reflection page provide a thoughtful and thorough reflection on the development of the portfolio website?

- Industry Best Practices: Did the student follow industry best practices for web development?
- W3C Validation: Is the website validated against W3C guidelines for HTML and CSS?
- Creativity: Did the student use their creativity to make the website stand out?

## Deadline

The assignment is due 23:59 Sunday 23 April 2023.

## Administration

This Assignment is worth 20% of your final marks for the unit. It is an INDIVIDUAL assignment and will be checked using TurnItIn. The assessment marking guide will be made available in Blackboard.

Assessment extension is permitted on application as per the instructions in the Unit Outline.

Late submission is permitted for this assignment and the student does not have an approved assessment extension:

1. For assessment items submitted with the first 24 hours after due date/time, students will be penalised by a reduction of 5% of the total marks allocated for the assessment task (i.e., 5% of 20 is 1)
2. For each additional 24-hour period commenced and additional penalty of 10% of the total marks allocated for the assessment item will be deducted; and
3. Assessment items submitted more than 168 hours late (7 calendar days) will receive a mark of zero.

## LEARNING OUTCOMES

This assignment assesses the following Unit Learning Outcomes:

1. Design, implement, and evaluate effective business web applications utilising appropriate web technologies.
2. Demonstrate effective project management and professional skills when developing business web sites.
3. Analyse and evaluate stakeholder requirements to inform the design of business websites.
4. Select and integrate technologies to access, layout, and present business data in a web application.