

# WEB TECH - Project 4 Specification Document

## Project Title:

Version Control Fundamentals with Git & GitHub and Enhanced Index Customization

## Project Number: 4

**Weight:** 12.5%

**Due Date:** April 18th at 4:00 PM

## Project Overview:

This project introduces students to the basics of version control using Git and GitHub integrated with Visual Studio Code. In addition to mastering version control commands (clone, commit, push), students will customize a starter website's index page to meet modern SEO and accessibility standards. Students will learn to:

- Set up Git, GitHub, and Visual Studio Code.
- Clone a provided repository containing starter website files.
- Utilize terminal commands to manage code versions.
- **Customize the index page** by adding:
  - SEO meta tags: a proper <title>, <meta name="description">, and <meta name="author">
  - A minimum of **three images** (each 250x250 pixels, not skewed/distorted) with appropriate alt attributes.
  - Colour contrast verification (using the WebAIM Contrast Checker).
  - CSS transitions applied to main navigation links that point to an external source (based on your chosen topic).
  - A structured content layout including:
    - One H1 heading
    - At least two H2 subheadings
    - The three images mentioned above
    - A minimum of four paragraphs
    - Either a list or a table

## Objectives:

- **Setup & Installation:**
  - Create/verify a GitHub account.
  - Install Git and Visual Studio Code.

- **Repository Management:**
  - Clone the provided repository containing starter website files.
  - Integrate Git with Visual Studio Code.
- **Website Development & Index Customization:**
  - Edit and update HTML and CSS files.
  - Implement SEO best practices on the index page by adding proper meta tags.
  - Incorporate at least three images (each 250x250 pixels) with descriptive ALT text.
  - Ensure the index page meets layout requirements (1 H1, ≥2 H2, ≥4 paragraphs, and either a list or a table).
  - Verify colour contrast using the WebAIM Contrast Checker.
  - Add CSS transitions to the main navigation links that direct to an external website (your chosen topic).
- **Version Control Operations:**
  - Use terminal commands to add, commit, and push changes.
  - Maintain clear commit messages and incremental updates.

### **Deliverables:**

- A GitHub repository containing:
  - The final version of the website (updated index.html, styles.css, and script.js).
  - A well-documented README file.
  - A commit history reflecting at least five meaningful updates.
- (Optional) A short written reflection on the version control process and your learning experience.

### **Submission Guidelines:**

- Ensure your final commit is pushed to GitHub by the deadline.
- Submit the GitHub repository link via the course portal.
- Late submissions may incur penalties as per course policy.

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## **Updated Evaluation Rubric**

<b>Criteria</b>	<b>Excellent (A)</b>	<b>Good (B)</b>	<b>Satisfactory (C)</b>	<b>Needs Improvement (D/F)</b>	<b>%</b>
<b>Setup &amp; Configuration</b>	Complete, error-free setup of Git, GitHub, and VS Code. Repository cloned successfully with all integrations working seamlessly.	Minor issues in setup/integration; repository cloned and mostly functional.	Basic setup completed; some errors or omissions are present.	Incomplete or incorrect setup; major issues with cloning or integration.	30%
<b>Version Control Process</b>	Regular, incremental commits with clear, descriptive messages; flawless use of terminal commands (git clone, git add, git commit, git push).	Commits are made regularly, though some messages lack detail; terminal commands are mostly correct.	Inconsistent commit frequency; some commit messages are vague; occasional terminal command errors.	Few or unclear commits; misuse or omission of essential terminal commands.	40%
<b>Website Functionality, Code Quality &amp; Index Page Customization</b>	Website is fully functional and responsive; code is clean, well-organized, and documented. The index page meets all customization requirements (SEO meta tags, three images at 250x250 with alt text, proper content structure, colour contrast compliance using WebAIM Contrast Checker, and CSS transitions on nav links linking externally).	Website works with minor issues; code quality is good with minor lapses; most index page customization requirements are met.	Website is basic and functional; code quality and documentation need improvement; index page customization partially implemented.	Website does not work as intended; code is poorly organized or lacks documentation; index page customization is incomplete or missing key elements.	30%