

Part 3 – Improvements & Enhancements

Kopano Construction Skills Centre

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1. Introduction

This document outlines all improvements implemented for Part 3 of the project, including:

- Edits based on Part 2 feedback
- JavaScript functionality
- Form validation
- SEO enhancements
- Accessibility upgrades
- Additional project structure improvements

2. Feedback Received from Part 2 and Corrections Made

2.1 Navigation issues

**Feedback: Links were not consistent across all pages.

**Fix: Updated navigation menu on all HTML pages to match the same structure and ARIA labels.

2.2 Missing accessibility features

**Feedback: Images lacked alt text, and menu toggle had no accessibility labels.

**Fix:

- Added descriptive `alt=""` text to images
- Added `aria-label` to mobile menu toggle
- Added `` landmarks
- Improved heading structure

2.3 SEO meta tags missing

**Feedback: Only title existed; no keywords or description.

**Fix: Added full SEO block:

- description
- keywords
- author
- Open Graph tags
- theme-colour
- social card metadata

2.4 Forms incomplete

**Feedback: Needed two forms (contact + enquiry).

**Fix:

- Added full HTML forms using required fields
- Added JavaScript validation
- Added AJAX submission placeholder (non-server version)

3. JavaScript Functionality Added (Part 3 Requirements)

✓ 3.1 Mobile Menu Toggle

Created a script that opens/closes the mobile navigation menu smoothly.

✓ 3.2 Accordion Feature (Courses page)

Added collapsible sections to make course information interactive.

✓ 3.3 Gallery Lightbox (gallery.html)

Images open in a full-screen modal with overlay.

✓ 3.4 Search / Filter Function

Added a real-time search filter for course names (or services).

✓ 3.5 Dynamic Content Loading

Added JS to load course items from an array instead of hard coding them.

✓ 3.6 Interactive Map

Integrated Leaflet.js into the Contact page to show a real location marker.

✓ 3.7 Form Validation

- Name validation
- Email validation
- Phone formatting
- Character limit warnings
- Required fields
- Error messages

4. SEO Improvements

4.1 On-Page SEO

- Added meta description
- Added keywords
- Added Open Graph tags
- Added unique titles on every page
- Improved header structure (H1 → H2 → H3)
- Added alt text to all images
- Improved URL and folder consistency

4.2 Off-Page SEO

- Added social sharing metadata
- Prepared content for future backlinks
- Suggested promoting pages on social platforms

4.3 Technical SEO

- Added `robots.txt`
- Added `sitemap.xml`
- Improved page load speed by compressing image sizes
- Linked JavaScript as external files
- Used semantic HTML elements (`main`, `nav`, `footer`)

5. Accessibility Improvements

- All images now include `alt` text
- `aria-label` added for menu button
- Colour contrast corrected (if applicable)
- Keyboard-friendly navigation ensured
- Headings restructured for readability
- Added `lang="en"` attribute

References:

- W3Schools HTML & JavaScript Documentation
- MDN Web Docs
- LeafletJS.com
- Google SEO Starter Guide

Conclusion

All Part 3 requirements have been implemented.

This document summarizes improvements, corrections, added functionality, and SEO/accessibility enhancements.