

Software Reengineering Term Project Report

Reengineered Portfolio Website Project

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1. Project Objectives

- To understand and apply software reengineering principles.
- To select an existing basic portfolio website and improve its structure, styling, and functionality.
- To demonstrate the transformation of a legacy codebase into a modern responsive web application.
- To present a comparison between the original and reengineered versions.

2. Project Overview

The project consists of a basic personal portfolio website created using HTML, CSS, and JavaScript. The same website was later improved using software reengineering techniques such as modular code, responsive design using Bootstrap, and organized folder structure.

Two versions are maintained:

- Before Reengineering
- After Reengineering

3. Tools and Technologies Used

- HTML5
- CSS3
- JavaScript (vanilla)
- Bootstrap 5 (for reengineered version)
- Git & GitHub (for version control)

4. Reengineering Process

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1. Analyze the existing code for issues and limitations.
2. Redesign layout using Bootstrap for responsiveness.
3. Refactor CSS and JavaScript into organized directories.
4. Add interactivity and improve accessibility.
5. Test across devices for responsiveness.
6. Create before-and-after comparison.

5. Screenshots

(Note: Insert screenshots of Before and After versions here in the final submission)

6. Conclusion

This project helped to understand how reengineering can enhance the performance, usability, and structure of a software product. It also gave hands-on experience with Bootstrap, version control using Git, and real-world application of software engineering principles.