

# Assignment 2 - Detailed Feedback Report

Student ID: 48951

## Assessment Overview

Your submission demonstrates a foundation that shows potential but requires substantial development. While there are fundamental elements in place, there are multiple critical areas requiring attention. You have substantial potential to improve, and the recommendations below outline a clear path forward to strengthen your software engineering practices and meet the assignment requirements.

## Areas for Improvement and Development

The following areas require focused attention and development. Addressing these will significantly strengthen your software engineering practices and overall project quality:

### Research Analysis

Recommended Actions:

- Create research documentation (Jupyter notebooks, research PDFs, or analysis markdown)
- Create at least 3 research documents for different analyses
- Create research documentation with data visualizations
- Document analysis methodology in research documentation

### Project Planning

Recommended Actions:

- Create PRD.md with Problem Statement, Functional Requirements, and Success Metrics
- Document architecture in README or ARCHITECTURE.md

## Testing Quality

Recommended Actions:

- Create test files for your code
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- Configure a test framework (pytest, jest, etc.)
- Write test functions (target: >10)

## Quality Standards

Recommended Actions:

- Configure linting tools (pylint, eslint, etc.)
- Set up CI/CD pipeline (GitHub Actions, GitLab CI, etc.)
- Create code style guide or CONTRIBUTING.md
- Set up pre-commit hooks for automatic quality checks

## Costs Pricing

Recommended Actions:

- Create cost analysis document (e.g., COSTS.md, budget.xlsx)
- Document costs, pricing, and budget considerations
- Create budget tracking system/document

## Extensibility

Current Status: Excellent modular structure (avg 83 lines/file)

Recommended Actions:

- Create plugin/extension system for modularity

- Define interfaces/APIs for extensibility
- Document extension/customization approach

## Priority Action Items

### Immediate Focus Areas:

These items require your immediate attention as they represent critical gaps in the current submission:

- Address Research Analysis
- Address Project Planning
- Address Testing Quality
- Address Quality Standards
- Address Costs Pricing

### High Priority Enhancements:

These areas would significantly strengthen your submission and should be addressed after the immediate focus items:

- Improve Extensibility
- Improve Config Security

## Conclusion

Your submission demonstrates potential, but requires substantial development in multiple critical areas. Focus first on the immediate priority items, which address fundamental requirements. Work systematically through each area, seeking examples and best practices. Remember that software engineering is a skill that develops through practice and iteration. Use this feedback as a roadmap for improvement.

Assessment Date: 2025-12-05

This report provides developmental feedback to support your learning and growth.