

# Assignment 1 - Detailed Feedback Report

Student ID: 38985

## 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 of Excellence

Your submission demonstrates particular strength in the following areas:

### Testing Quality

- Found 1 test file(s)
- Good test coverage with 1 test file(s)
- Excellent test count: 15 test functions

### Research Analysis

- Found 1 research document(s)
- Research documentation includes visualizations
- Research documentation provides analysis methodology

### Code Documentation

- README.md found (11929 bytes)

- Installation instructions found in README
- Usage examples found in README

## 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:

### Project Planning

Recommended Actions:

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

### Quality Standards

Current Status: Linting configured: pyproject.toml

Recommended Actions:

- Set up CI/CD pipeline (GitHub Actions, GitLab CI, etc.)
- Create dedicated style guide or CONTRIBUTING.md
- Set up pre-commit hooks for automatic quality checks
- Add more quality tools

### Extensibility

Current Status: Large files detected (avg 379 lines/file)

Recommended Actions:

- Create plugin/extension system for modularity
- Refactor into modular structure with smaller files
- Document how to extend/customize the system

## **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

## **Config Security**

Current Status: No hardcoded secrets found in production code

Recommended Actions:

- Create .env.example file to document required environment variables
- Create .gitignore file and add .env to it
- Improve .gitignore coverage for better security

## **Version Management**

Current Status: Limited commit history: 2 commits

Recommended Actions:

- Make more commits (target: >10)
- Create PROMPT\_BOOK.md to document AI interactions

## Priority Action Items

### Immediate Focus Areas:

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

- Address Project Planning
- Address Costs Pricing

### High Priority Enhancements:

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

- Improve Quality Standards
- Improve Extensibility
- Improve Config Security
- Improve Version Management

## 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: 2025-12-04

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