Assignment 3 - Detailed Feedback Report

Student ID: 63724

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:

Research Analysis

• Found 4 research document(s)

• Multiple research artifacts for comprehensive analysis

• Research documentation includes visualizations

Code Documentation

• README.md found (11961 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:

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)

Extensibility

Current Status: Excellent modular structure (avg 117 lines/file)

Recommended Actions:

• Create plugin/extension system for modularity

• Define interfaces/APIs for extensibility

• Document extension/customization approach

Ui Ux

Current Status: UI documentation found: requirements.txt, docs\DESIGN.md

Recommended Actions:

• Add screenshots of your application

• Add at least 5 screenshots showing different features

• Add UI screenshots to README.md

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

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

- Use environment variables for configuration

- Improve .gitignore coverage for better security

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

Priority Action Items

Immediate Focus Areas:

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

• 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 Ui Ux

• 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.