

# DETAILED GRADE BREAKDOWN

## Assignment 4

Student ID: 87687

Repository: LLMs-and-Multi-Agent-Orchestration---Assignment2

Assessment Date: 2025-12-23

## FINAL SCORE: 77.0 / 100

### Performance Tier: Potential

## Skills Summary

Skill	Score	Status
Ui Ux	10.0/10	✓ Excellent
Testing Quality	8.0/10	✓ Excellent
Quality Standards	3.0/10	✗ Poor
Project Planning	10.0/10	✓ Excellent
Extensibility	3.0/10	✗ Poor
Version Management	9.0/10	✓ Excellent
Research Analysis	10.0/10	✓ Excellent
Code Documentation	10.0/10	✓ Excellent
Costs Pricing	9.0/10	✓ Excellent
Config Security	5.0/10	■ Fair

# Skill: Ui Ux

**Score: 10.0/10 points**

Status: ✓ Excellent

## Points Breakdown

Criterion	Max Points	Earned	Status
Screenshots/images (1+)	3.0	3.0	✓
Screenshots/images (5+)	3.0	3.0	✓
UI documentation	2.0	2.0	✓
User guide exists	2.0	2.0	✓
<b>TOTAL</b>	<b>10.0</b>	<b>10.0</b>	

## What Was Found

- Found 5 image(s)/screenshot(s)
- Excellent visual documentation with 5+ images
- UI documentation found: requirements.txt

## What Was Missing

- All criteria met!

# Skill: Testing Quality

**Score: 8.0/10 points**

Status: ✓ Excellent

## Points Breakdown

Criterion	Max Points	Earned	Status
Test files exist	3.0	2.4	✗
Multiple test files (>3)	2.0	1.6	✗
Test framework configured	2.0	1.6	✗
Test functions (>10)	3.0	2.4	✗
<b>TOTAL</b>	<b>10.0</b>	<b>8.0</b>	

## What Was Found

- Found 1 test file(s)

## What Was Missing

- All criteria met!

## How to Improve (+2.0 points)

1. Configure a test framework (pytest, jest, etc.) (+2.0 points)

# Skill: Quality Standards

Score: 3.0/10 points

Status: X Poor

## Points Breakdown

Criterion	Max Points	Earned	Status
Linting configuration	2.0	0.6	X
CI/CD pipeline	3.0	0.9	X
Code style guide	2.0	0.6	X
Pre-commit hooks	2.0	0.6	X
Project setup file	1.0	0.3	X
<b>TOTAL</b>	<b>10.0</b>	<b>3.0</b>	

## What Was Found

- Code style guide found: CONTRIBUTING.md

## What Was Missing

- All criteria met!

## How to Improve (+7.0 points)

1. Configure linting tools (pylint, eslint, etc.) (+2.0 points)
2. Set up CI/CD pipeline (GitHub Actions, GitLab CI, etc.) (+3.0 points)
3. Set up pre-commit hooks for automatic quality checks (+1.0 point)
4. Configure quality assurance tools (+1.0 point)

# Skill: Project Planning

Score: 10.0/10 points

Status: ✓ Excellent

## Points Breakdown

Criterion	Max Points	Earned	Status
PRD.md exists	2.0	2.0	✓
ARCHITECTURE.md exists	5.0	5.0	✓
Problem Statement	1.0	1.0	✓
Functional Requirements	1.5	1.5	✓
Success Metrics	0.5	0.5	✓
<b>TOTAL</b>	<b>10.0</b>	<b>10.0</b>	

## What Was Found

- PRD.md found
- Problem Statement found in PRD
- Functional Requirements found in PRD
- Success Metrics found in PRD
- ARCHITECTURE.md found

## What Was Missing

- All criteria met!

# Skill: Extensibility

Score: 3.0/10 points

Status: **X** Poor

## Points Breakdown

Criterion	Max Points	Earned	Status
Plugin/extension system	3.0	0.9	<b>X</b>
Modular structure (3+ dirs)	3.0	0.9	<b>X</b>
Interfaces/APIs	2.0	0.6	<b>X</b>
Extension documentation	2.0	0.6	<b>X</b>
<b>TOTAL</b>	<b>10.0</b>	<b>3.0</b>	

## What Was Found

## What Was Missing

- All criteria met!

## How to Improve (+7.0 points)

1. Implement actual plugin/extension system (+2.0 points)
2. Refactor into modular structure with smaller files (+3.0 points)
3. Define interfaces/APIs for extensibility (+2.0 points)

# Skill: Version Management

Score: 9.0/10 points

Status: ✓ Excellent

## Points Breakdown

Criterion	Max Points	Earned	Status
Git commits >10	2.0	1.8	✗
Meaningful commit messages	2.0	1.8	✗
PROMPT_BOOK.md exists	5.0	4.5	✗
Branching strategy	1.0	0.9	✗
<b>TOTAL</b>	<b>10.0</b>	<b>9.0</b>	

## What Was Found

- Prompt documentation found: docs\PROMPT\_BOOK.md

## What Was Missing

- All criteria met!

## How to Improve (+1.0 points)

1. Make more commits to document project evolution (+1.0 point)

# Skill: Research Analysis

**Score: 10.0/10 points**

Status: ✓ Excellent

## Points Breakdown

Criterion	Max Points	Earned	Status
Jupyter notebooks exist	4.0	4.0	✓
Multiple notebooks (>2)	2.0	2.0	✓
Has visualizations/plots	2.0	2.0	✓
Analysis documentation	2.0	2.0	✓
<b>TOTAL</b>	<b>10.0</b>	<b>10.0</b>	

## What Was Found

- Found 14 research document(s)
- Found 1 data file(s) for analysis

## What Was Missing

- All criteria met!

# Skill: Code Documentation

**Score: 10.0/10 points**

Status: ✓ Excellent

## Points Breakdown

Criterion	Max Points	Earned	Status
README.md >1KB	3.0	3.0	✓
Installation instructions	1.0	1.0	✓
Usage examples	1.0	1.0	✓
Code structure documented	2.0	2.0	✓
Python docstrings (>50%)	3.0	3.0	✓
<b>TOTAL</b>	<b>10.0</b>	<b>10.0</b>	

## What Was Found

- README.md found (47079 bytes)
- Installation instructions found in README
- Usage examples found in README
- docs/ directory found

## What Was Missing

- All criteria met!

# Skill: Costs Pricing

Score: 9.0/10 points

Status: ✓ Excellent

## Points Breakdown

Criterion	Max Points	Earned	Status
Cost analysis document	5.0	4.5	✗
Cost mentions in docs	3.0	2.7	✗
Budget tracking	2.0	1.8	✗
<b>TOTAL</b>	<b>10.0</b>	<b>9.0</b>	

## What Was Found

- Cost analysis document found: docs\COST\_ANALYSIS.md
- API pricing analysis found (excellent for LLM projects)

## What Was Missing

- All criteria met!

## How to Improve (+1.0 points)

1. Create dedicated budget tracking system (+1.0 point)

# Skill: Config Security

Score: 5.0/10 points

Status: ■ Fair

## Points Breakdown

Criterion	Max Points	Earned	Status
No hardcoded secrets (CRITICAL)	5.0	2.5	✗
.env.example exists	2.0	1.0	✗
.gitignore exists	1.0	0.5	✗
Uses environment variables	2.0	1.0	✗
<b>TOTAL</b>	<b>10.0</b>	<b>5.0</b>	

## What Was Found

- No hardcoded secrets found in production code
- .gitignore file found

## What Was Missing

- No hardcoded secrets found in production code

## How to Improve (+5.0 points)

1. Create .env.example file to document required environment variables (+2.0 points)
2. Add .env to .gitignore to prevent committing secrets (+1.0 point)
3. Implement environment variable usage in code (+1.0 point)
4. Improve overall security practices (+1.0 point)

# Overall Assessment Summary

## Key Strengths (8+ points)

- Ui Ux: 10.0/10
- Testing Quality: 8.0/10
- Project Planning: 10.0/10
- Version Management: 9.0/10
- Research Analysis: 10.0/10
- Code Documentation: 10.0/10
- Costs Pricing: 9.0/10

## Critical Gaps (<5 points)

- Quality Standards: 3.0/10
- Extensibility: 3.0/10

## Recommended Actions

### Immediate Priority:

- All critical areas addressed - focus on optimization

### High Priority:

- Improve Quality Standards (3.0/10 points)
- Improve Extensibility (3.0/10 points)