DETAILED GRADE BREAKDOWN

Assignment 5

Student ID:	109994
Repository:	LLMs-and-Multi-Agent-Orchestration---Assignment6
Assessment Date:	2025-12-23

FINAL SCORE: 89.5 / 100

Performance Tier: Good

Skills Summary

Skill	Score	Status
Ui Ux	10.0/10	✓ Excellent
Quality Standards	9.0/10	✓ Excellent
Version Management	10.0/10	✓ Excellent
Project Planning	7.5/10	✓ Good
Testing Quality	10.0/10	✓ Excellent
Extensibility	3.5/10	✗ Poor
Research Analysis	10.0/10	✓ Excellent
Code Documentation	10.0/10	✓ Excellent
Costs Pricing	9.5/10	✓ Excellent
Config Security	10.0/10	✓ Excellent

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	✓
TOTAL	**10.0**	**10.0**	

What Was Found

• Found 14 image(s)/screenshot(s)

• Excellent visual documentation with 5+ images

• UI documentation found: LOGGING_GUIDE.md, requirements.txt, docs\BUILDING_BLOCKS.md

What Was Missing

• All criteria met!

Skill: Quality Standards

Score: 9.0/10 points

Status: ✓ Excellent

Points Breakdown

Criterion	Max Points	Earned	Status
Linting configuration	2.0	1.8	✗
CI/CD pipeline	3.0	2.7	✗
Code style guide	2.0	1.8	✗
Pre-commit hooks	2.0	1.8	✗
Project setup file	1.0	0.9	✗
TOTAL	**10.0**	**9.0**	

What Was Found

• Code style guide found: docs\CONTRIBUTING.md

What Was Missing

• All criteria met!

How to Improve (+1.0 points)

1. Set up pre-commit hooks for automatic quality checks (+1.0 point)

Skill: Version Management

Score: 10.0/10 points

Status: ✓ Excellent

Points Breakdown

Criterion	Max Points	Earned	Status
Git commits >10	2.0	2.0	✓
Meaningful commit messages	2.0	2.0	✓
PROMPT_BOOK.md exists	5.0	5.0	✓
Branching strategy	1.0	1.0	✓
TOTAL	**10.0**	**10.0**	

What Was Found

• Prompt documentation found: docs\PROMPT_BOOK.md

What Was Missing

• All criteria met!

Skill: Project Planning

Score: 7.5/10 points

Status: ✓ Good

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	0.8	✗
Functional Requirements	1.5	1.1	✗
Success Metrics	0.5	0.4	✗
TOTAL	**10.0**	**7.5**	

What Was Found

• PRD.md found

• Success Metrics found in PRD

• ARCHITECTURE.md found

What Was Missing

• All criteria met!

How to Improve (+2.5 points)

1. Add Problem Statement section to PRD.md (+1.0 point)

2. Add Functional Requirements section to PRD.md (+1.5 points)

Skill: Testing Quality

Score: 10.0/10 points

Status: ✓ Excellent

Points Breakdown

Criterion	Max Points	Earned	Status
Test files exist	3.0	3.0	✓
Multiple test files (>3)	2.0	2.0	✓
Test framework configured	2.0	2.0	✓
Test functions (>10)	3.0	3.0	✓
TOTAL	**10.0**	**10.0**	

What Was Found

• Found 11 test file(s)

What Was Missing

• All criteria met!

Skill: Extensibility

Score: 3.5/10 points

Status: ✗ Poor

Points Breakdown

Criterion	Max Points	Earned	Status
Plugin/extension system	3.0	1.0	✗
Modular structure (3+ dirs)	3.0	1.0	✗
Interfaces/APIs	2.0	0.7	✗
Extension documentation	2.0	0.7	✗
TOTAL	**10.0**	**3.5**	

What Was Found

What Was Missing

• All criteria met!

How to Improve (+6.5 points)

1. Create plugin/extension system for modularity (+3.0 points)

2. Break down large files into smaller modules (+2.0 points)

3. Document how to extend/customize the system (+1.5 points)

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	✓
TOTAL	**10.0**	**10.0**	

What Was Found

• Found 1 Jupyter notebook(s) and 39 research document(s)

• Visualizations found in 1 notebook(s)

• Found 48 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	✓
TOTAL	**10.0**	**10.0**	

What Was Found

• README.md found (31847 bytes)

• Installation instructions found in README

• Usage examples found in README

• docs/ directory found

• Package __init__.py with documentation found

What Was Missing

• All criteria met!

Skill: Costs Pricing

Score: 9.5/10 points

Status: ✓ Excellent

Points Breakdown

Criterion	Max Points	Earned	Status
Cost analysis document	5.0	4.8	✗
Cost mentions in docs	3.0	2.8	✗
Budget tracking	2.0	1.9	✗
TOTAL	**10.0**	**9.5**	

What Was Found

• Cost analysis document found: docs\COST_ANALYSIS.md

• Cost calculations found in code

• API pricing analysis found (excellent for LLM projects)

What Was Missing

• All criteria met!

How to Improve (+0.5 points)

1. Create dedicated budget tracking document (+0.5 points)

Skill: Config Security

Score: 10.0/10 points

Status: ✓ Excellent

Points Breakdown

Criterion	Max Points	Earned	Status
No hardcoded secrets (CRITICAL)	5.0	5.0	✓
.env.example exists	2.0	2.0	✓
.gitignore exists	1.0	1.0	✓
Uses environment variables	2.0	2.0	✓
TOTAL	**10.0**	**10.0**	

What Was Found

• No hardcoded secrets found in production code

• .env.example file found

• .gitignore file found with .env properly ignored

What Was Missing

• No hardcoded secrets found in production code

Overall Assessment Summary

Key Strengths (8+ points)

• Ui Ux: 10.0/10

• Quality Standards: 9.0/10

• Version Management: 10.0/10

• Testing Quality: 10.0/10

• Research Analysis: 10.0/10

• Code Documentation: 10.0/10

• Costs Pricing: 9.5/10

• Config Security: 10.0/10

Critical Gaps (<5 points)

• Extensibility: 3.5/10

Recommended Actions

Immediate Priority:

• All critical areas addressed - focus on optimization

High Priority:

• Improve Extensibility (3.5/10 points)