

# DETAILED GRADE BREAKDOWN

## Assignment 3

Student ID: 63700

Repository: LLMs-and-Multi-Agent-Orchestration---Assignment3

Assessment Date: 2025-12-04

FINAL SCORE: 67.0 / 100

Performance Tier: Potential

## Skills Summary

Skill	Score	Status
Ui Ux	2.0/10	✗ Poor
Quality Standards	0.0/10	✗ Poor
Testing Quality	8.0/10	✓ Excellent
Project Planning	10.0/10	✓ Excellent
Extensibility	2.0/10	✗ Poor
Version Management	10.0/10	✓ Excellent
Research Analysis	10.0/10	✓ Excellent
Code Documentation	10.0/10	✓ Excellent
Costs Pricing	9.0/10	✓ Excellent
Config Security	6.0/10	✓ Good

# Skill: Ui Ux

Score: 2.0/10 points

Status: ✗ Poor

## Points Breakdown

Criterion	Max Points	Earned	Status
Screenshots/images (1+)	3.0	0.6	✗
Screenshots/images (5+)	3.0	0.6	✗
UI documentation	2.0	0.4	✗
User guide exists	2.0	0.4	✗
<b>TOTAL</b>	<b>10.0</b>	<b>2.0</b>	

## What Was Found

- UI documentation found: requirements.txt, docs\QUICK\_START.md, docs\ADRs\ADR-001-multi-agent-design.md

## What Was Missing

- All criteria met!

## How to Improve (+8.0 points)

1. Add screenshots of your application (+3.0 points)
2. Add at least 5 screenshots showing different features (+3.0 points)
3. Add UI screenshots to README.md (+2.0 points)

# Skill: Quality Standards

Score: 0.0/10 points

Status: ✗ Poor

## Points Breakdown

Criterion	Max Points	Earned	Status
Linting configuration	2.0	0.0	✗
CI/CD pipeline	3.0	0.0	✗
Code style guide	2.0	0.0	✗
Pre-commit hooks	2.0	0.0	✗
Project setup file	1.0	0.0	✗
<b>TOTAL</b>	<b>10.0</b>	<b>0.0</b>	

## What Was Missing

- All criteria met!

## How to Improve (+10.0 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. Create code style guide or CONTRIBUTING.md (+3.0 points)
4. Set up pre-commit hooks for automatic quality checks (+1.0 point)
5. Configure quality assurance tools (+1.0 point)

# 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 4 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: 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: 2.0/10 points

Status: X Poor

## Points Breakdown

Criterion	Max Points	Earned	Status
Plugin/extension system	3.0	0.6	<span>X</span>
Modular structure (3+ dirs)	3.0	0.6	<span>X</span>
Interfaces/APIs	2.0	0.4	<span>X</span>
Extension documentation	2.0	0.4	<span>X</span>
<b>TOTAL</b>	<b>10.0</b>	<b>2.0</b>	

## What Was Found

- Basic extensibility documentation found: README.md (extensibility section)

## What Was Missing

- All criteria met!

## How to Improve (+8.0 points)

1. Create plugin/extension system for modularity (+3.0 points)
2. Break down large files into smaller modules (+2.0 points)
3. Define interfaces/APIs for extensibility (+2.0 points)
4. Add extension points and code examples (+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	✓
<b>TOTAL</b>	<b>10.0</b>	<b>10.0</b>	

## What Was Found

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

## What Was Missing

- All criteria met!

# 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 32 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 (39407 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: 9.0/10 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	✗
TOTAL	10.0	9.0	

## 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: 6.0/10 points

Status: ✓ Good

## Points Breakdown

Criterion	Max Points	Earned	Status
No hardcoded secrets (CRITICAL)	5.0	3.0	✗
.env.example exists	2.0	1.2	✗
.gitignore exists	1.0	0.6	✗
Uses environment variables	2.0	1.2	✗
TOTAL	10.0	6.0	

### What Was Found

- No hardcoded secrets found in production code
- .gitignore file found with .env properly ignored

### What Was Missing

- No hardcoded secrets found in production code

### How to Improve (+4.0 points)

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

# Overall Assessment Summary

## Key Strengths (8+ points)

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

## Critical Gaps (<5 points)

- Ui Ux: 2.0/10
- Quality Standards: 0.0/10
- Extensibility: 2.0/10

## Recommended Actions

### Immediate Priority:

- Address Quality Standards (0/10 points)

### High Priority:

- Improve Ui Ux (2.0/10 points)
- Improve Extensibility (2.0/10 points)