

# DETAILED GRADE BREAKDOWN

## Assignment 3

Student ID: 63688

Repository: agents-task3

Assessment Date: 2025-12-03

FINAL SCORE: 34.5 / 100

Performance Tier: Below Standard

### Skills Summary

| Skill              | Score   | Status      |
|--------------------|---------|-------------|
| Testing Quality    | 0.0/10  | ✗ Poor      |
| Project Planning   | 0.0/10  | ✗ Poor      |
| Extensibility      | 3.0/10  | ✗ Poor      |
| Quality Standards  | 0.0/10  | ✗ Poor      |
| Research Analysis  | 8.0/10  | ✓ Excellent |
| Ui Ux              | 5.0/10  | ■ Fair      |
| Config Security    | 4.0/10  | ■ Fair      |
| Code Documentation | 10.0/10 | ✓ Excellent |
| Costs Pricing      | 0.5/10  | ✗ Poor      |
| Version Management | 4.0/10  | ■ Fair      |

# Skill: Testing Quality

Score: 0.0/10 points

Status: X Poor

## Points Breakdown

| Criterion                 | Max Points  | Earned     | Status                             |
|---------------------------|-------------|------------|------------------------------------|
| Test files exist          | 3.0         | 0.0        | <span style="color: red;">X</span> |
| Multiple test files (>3)  | 2.0         | 0.0        | <span style="color: red;">X</span> |
| Test framework configured | 2.0         | 0.0        | <span style="color: red;">X</span> |
| Test functions (>10)      | 3.0         | 0.0        | <span style="color: red;">X</span> |
| <b>TOTAL</b>              | <b>10.0</b> | <b>0.0</b> |                                    |

## What Was Missing

- All criteria met!

## How to Improve (+10.0 points)

1. Create test files for your code (+3.0 points)
2. Create test files for your code (+2.0 points)
3. Configure a test framework (pytest, jest, etc.) (+2.0 points)
4. Write test functions (target: >10) (+3.0 points)

# Skill: Project Planning

Score: 0.0/10 points

Status: ✗ Poor

## Points Breakdown

| Criterion               | Max Points  | Earned     | Status |
|-------------------------|-------------|------------|--------|
| PRD.md exists           | 2.0         | 0.0        | ✗      |
| ARCHITECTURE.md exists  | 5.0         | 0.0        | ✗      |
| Problem Statement       | 1.0         | 0.0        | ✗      |
| Functional Requirements | 1.5         | 0.0        | ✗      |
| Success Metrics         | 0.5         | 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. Create PRD.md with Problem Statement, Functional Requirements, and Success Metrics (+4.0 points)
2. Document architecture in README or ARCHITECTURE.md (+5.0 points)

# Skill: Extensibility

Score: 3.0/10 points

Status: ✗ Poor

## Points Breakdown

| Criterion                   | Max Points  | Earned     | Status                             |
|-----------------------------|-------------|------------|------------------------------------|
| Plugin/extension system     | 3.0         | 0.9        | <span style="color: red;">✗</span> |
| Modular structure (3+ dirs) | 3.0         | 0.9        | <span style="color: red;">✗</span> |
| Interfaces/APIs             | 2.0         | 0.6        | <span style="color: red;">✗</span> |
| Extension documentation     | 2.0         | 0.6        | <span style="color: red;">✗</span> |
| <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. Create plugin/extension system for modularity (+3.0 points)
2. Define interfaces/APIs for extensibility (+2.0 points)
3. Document extension/customization approach (+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: Research Analysis

Score: 8.0/10 points

Status: ✓ Excellent

## Points Breakdown

| Criterion                | Max Points  | Earned     | Status |
|--------------------------|-------------|------------|--------|
| Jupyter notebooks exist  | 4.0         | 3.2        | ✗      |
| Multiple notebooks (>2)  | 2.0         | 1.6        | ✗      |
| Has visualizations/plots | 2.0         | 1.6        | ✗      |
| Analysis documentation   | 2.0         | 1.6        | ✗      |
| <b>TOTAL</b>             | <b>10.0</b> | <b>8.0</b> |        |

## What Was Found

- Found 1 Jupyter notebook(s) and 1 research document(s)
- Found 1 data file(s) for analysis

## What Was Missing

- All criteria met!

## How to Improve (+2.0 points)

1. Create more research documentation (currently 2, need >2) (+2.0 points)

# Skill: Ui Ux

Score: 5.0/10 points

Status: ■ Fair

## Points Breakdown

| Criterion               | Max Points  | Earned     | Status |
|-------------------------|-------------|------------|--------|
| Screenshots/images (1+) | 3.0         | 1.5        | ✗      |
| Screenshots/images (5+) | 3.0         | 1.5        | ✗      |
| UI documentation        | 2.0         | 1.0        | ✗      |
| User guide exists       | 2.0         | 1.0        | ✗      |
| <b>TOTAL</b>            | <b>10.0</b> | <b>5.0</b> |        |

## What Was Found

- Found 1 image(s)/screenshot(s)
- UI documentation found: requirements.txt

## What Was Missing

- All criteria met!

## How to Improve (+5.0 points)

1. Add more screenshots (currently 1, need 5+) (+3.0 points)
2. Add UI screenshots to README.md (+2.0 points)

# Skill: Config Security

Score: 4.0/10 points

Status: ■ Fair

## Points Breakdown

| Criterion                       | Max Points | Earned | Status |
|---------------------------------|------------|--------|--------|
| No hardcoded secrets (CRITICAL) | 5.0        | 2.0    | ✗      |
| .env.example exists             | 2.0        | 0.8    | ✗      |
| .gitignore exists               | 1.0        | 0.4    | ✗      |
| Uses environment variables      | 2.0        | 0.8    | ✗      |
| TOTAL                           | 10.0       | 4.0    |        |

### 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 (+6.0 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. Use environment variables for configuration (+2.0 points)
4. Improve overall security practices (+1.0 point)

# 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 (15970 bytes)
- Installation instructions found in README
- Usage examples found in README
- No Python files found (N/A for docstrings)

## What Was Missing

- No Python files found (N/A for docstrings)

# Skill: Costs Pricing

Score: 0.5/10 points

Status: X Poor

## Points Breakdown

| Criterion              | Max Points  | Earned     | Status         |
|------------------------|-------------|------------|----------------|
| Cost analysis document | 5.0         | 0.2        | <span>X</span> |
| Cost mentions in docs  | 3.0         | 0.2        | <span>X</span> |
| Budget tracking        | 2.0         | 0.1        | <span>X</span> |
| <b>TOTAL</b>           | <b>10.0</b> | <b>0.5</b> |                |

## What Was Found

## What Was Missing

- All criteria met!

## How to Improve (+9.5 points)

1. Create cost analysis document (e.g., COSTS.md, budget.xlsx) (+5.0 points)
2. Add detailed cost analysis (+2.5 points)
3. Create budget tracking system/document (+2.0 points)

# Skill: Version Management

Score: 4.0/10 points

Status: ■ Fair

## Points Breakdown

| Criterion                  | Max Points  | Earned     | Status |
|----------------------------|-------------|------------|--------|
| Git commits >10            | 2.0         | 0.8        | ✗      |
| Meaningful commit messages | 2.0         | 0.8        | ✗      |
| PROMPT_BOOK.md exists      | 5.0         | 2.0        | ✗      |
| Branching strategy         | 1.0         | 0.4        | ✗      |
| <b>TOTAL</b>               | <b>10.0</b> | <b>4.0</b> |        |

## What Was Found

## What Was Missing

- All criteria met!

## How to Improve (+6.0 points)

1. Improve commit message quality (+1.0 point)
2. Create PROMPT\_BOOK.md to document AI interactions (+5.0 points)

# Overall Assessment Summary

## Key Strengths (8+ points)

- Research Analysis: 8.0/10
- Code Documentation: 10.0/10

## Critical Gaps (<5 points)

- Testing Quality: 0.0/10
- Project Planning: 0.0/10
- Extensibility: 3.0/10
- Quality Standards: 0.0/10
- Config Security: 4.0/10
- Costs Pricing: 0.5/10
- Version Management: 4.0/10

## Recommended Actions

### Immediate Priority:

- Address Testing Quality (0/10 points)
- Address Project Planning (0/10 points)
- Address Quality Standards (0/10 points)

### High Priority:

- Improve Extensibility (3.0/10 points)
- Improve Config Security (4.0/10 points)
- Improve Costs Pricing (0.5/10 points)
- Improve Version Management (4.0/10 points)