

DETAILED GRADE BREAKDOWN

Assignment 2

Student ID: 48962

Repository: lstm-sine-demixer

Assessment Date: 2025-12-04

FINAL SCORE: 66.5 / 100

Performance Tier: Potential

Skills Summary

Skill	Score	Status
Ui Ux	4.0/10	■ Fair
Quality Standards	1.5/10	✗ Poor
Project Planning	8.5/10	✓ Excellent
Version Management	10.0/10	✓ Excellent
Testing Quality	10.0/10	✓ Excellent
Extensibility	0.0/10	✗ Poor
Research Analysis	10.0/10	✓ Excellent
Code Documentation	10.0/10	✓ Excellent
Config Security	7.0/10	✓ Good
Costs Pricing	5.5/10	■ Fair

Skill: Ui Ux

Score: 4.0/10 points

Status: ■ Fair

Points Breakdown

Criterion	Max Points	Earned	Status
Screenshots/images (1+)	3.0	1.2	✗
Screenshots/images (5+)	3.0	1.2	✗
UI documentation	2.0	0.8	✗
User guide exists	2.0	0.8	✗
TOTAL	10.0	4.0	

What Was Found

- UI documentation found: requirements.txt

What Was Missing

- All criteria met!

How to Improve (+6.0 points)

1. Add screenshots of your application (+3.0 points)
2. Add at least 5 screenshots showing different features (+3.0 points)

Skill: Quality Standards

Score: 1.5/10 points

Status: ✗ Poor

Points Breakdown

Criterion	Max Points	Earned	Status
Linting configuration	2.0	0.3	✗
CI/CD pipeline	3.0	0.4	✗
Code style guide	2.0	0.3	✗
Pre-commit hooks	2.0	0.3	✗
Project setup file	1.0	0.1	✗
TOTAL	10.0	1.5	

What Was Found

What Was Missing

- All criteria met!

How to Improve (+8.5 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 dedicated style guide or CONTRIBUTING.md (+1.5 points)
4. Set up pre-commit hooks for automatic quality checks (+1.0 point)
5. Configure quality assurance tools (+1.0 point)

Skill: Project Planning

Score: 8.5/10 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	0.8	✗
Functional Requirements	1.5	1.3	✗
Success Metrics	0.5	0.4	✗
TOTAL	10.0	8.5	

What Was Found

- PRD.md found
- Functional Requirements found in PRD
- ARCHITECTURE.md found

What Was Missing

- All criteria met!

How to Improve (+1.5 points)

1. Add Problem Statement section to PRD.md (+1.0 point)
2. Add Success Metrics section to PRD.md (+0.5 points)

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_log.md

What Was Missing

- All criteria met!

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 9 test file(s)

What Was Missing

- All criteria met!

Skill: Extensibility

Score: 0.0/10 points

Status: X Poor

Points Breakdown

Criterion	Max Points	Earned	Status
Plugin/extension system	3.0	0.0	X
Modular structure (3+ dirs)	3.0	0.0	X
Interfaces/APIs	2.0	0.0	X
Extension documentation	2.0	0.0	X
TOTAL	10.0	0.0	

What Was Found

What Was Missing

- All criteria met!

How to Improve (+10.0 points)

1. Create plugin/extension system for modularity (+3.0 points)
2. Refactor into modular structure with smaller files (+3.0 points)
3. Define interfaces/APIs for extensibility (+2.0 points)
4. Document extension/customization approach (+2.0 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 19 research document(s)
- Visualizations found in 1 notebook(s)

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 (24102 bytes)
- Installation instructions found in README
- Usage examples found in README
- docs/ directory found

What Was Missing

- All criteria met!

Skill: Config Security

Score: 7.0/10 points

Status: ✓ Good

Points Breakdown

Criterion	Max Points	Earned	Status
No hardcoded secrets (CRITICAL)	5.0	3.5	✗
.env.example exists	2.0	1.4	✗
.gitignore exists	1.0	0.7	✗
Uses environment variables	2.0	1.4	✗
TOTAL	10.0	7.0	

What Was Found

- WARNING: 3 hardcoded secret(s) found in production code!
- .env.example file found
- .gitignore file found with .env properly ignored

What Was Missing

- All criteria met!

How to Improve (+3.0 points)

1. Remove hardcoded secrets and use environment variables (+2.0 points)
2. Improve overall security practices (+1.0 point)

Skill: Costs Pricing

Score: 5.5/10 points

Status: ■ Fair

Points Breakdown

Criterion	Max Points	Earned	Status
Cost analysis document	5.0	2.8	✗
Cost mentions in docs	3.0	1.7	✗
Budget tracking	2.0	1.1	✗
TOTAL	10.0	5.5	

What Was Found

- Substantial cost discussion found (12 mentions)
- Cost calculations found in code

What Was Missing

- All criteria met!

How to Improve (+4.5 points)

1. Consolidate into dedicated cost analysis document (+3.0 points)
2. Add more detailed cost analysis (+1.0 point)
3. Create dedicated budget tracking document (+0.5 points)

Overall Assessment Summary

Key Strengths (8+ points)

- Project Planning: 8.5/10
- Version Management: 10.0/10
- Testing Quality: 10.0/10
- Research Analysis: 10.0/10
- Code Documentation: 10.0/10

Critical Gaps (<5 points)

- Ui Ux: 4.0/10
- Quality Standards: 1.5/10
- Extensibility: 0.0/10

Recommended Actions

Immediate Priority:

- Address Extensibility (0/10 points)

High Priority:

- Improve Ui Ux (4.0/10 points)
- Improve Quality Standards (1.5/10 points)