

# DETAILED GRADE BREAKDOWN

## Assignment 2

Student ID: 48962

Repository: lstm-sine-demixer

Assessment Date: 2025-12-02

## FINAL SCORE: 65.0 / 100

### Performance Tier: Potential

## Skills Summary

Skill	Score	Status
Ui Ux	4.0/10	■ Fair
Extensibility	0.0/10	✗ Poor
Project Planning	8.5/10	✓ Excellent
Research Analysis	10.0/10	✓ Excellent
Testing Quality	10.0/10	✓ Excellent
Code Documentation	10.0/10	✓ Excellent
Quality Standards	0.0/10	✗ Poor
Version Management	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	✗
<b>TOTAL</b>	<b>10.0</b>	<b>4.0</b>	

## 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: Extensibility

Score: 0.0/10 points

Status: **X** Poor

## Points Breakdown

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

## 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: 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	✗
<b>TOTAL</b>	<b>10.0</b>	<b>8.5</b>	

## 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: 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 1 Jupyter notebook(s) and 19 research document(s)
- Visualizations found in 1 notebook(s)

## 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	✓
<b>TOTAL</b>	<b>10.0</b>	<b>10.0</b>	

## What Was Found

- Found 9 test file(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	✓
<b>TOTAL</b>	<b>10.0</b>	<b>10.0</b>	

## 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: Quality Standards

**Score: 0.0/10 points**

Status: **X** Poor

## Points Breakdown

Criterion	Max Points	Earned	Status
Linting configuration	2.0	0.0	<b>X</b>
CI/CD pipeline	3.0	0.0	<b>X</b>
Code style guide	2.0	0.0	<b>X</b>
Pre-commit hooks	2.0	0.0	<b>X</b>
Project setup file	1.0	0.0	<b>X</b>
<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: 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\_log.md

## 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	✗
<b>TOTAL</b>	<b>10.0</b>	<b>7.0</b>	

## 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	✗
<b>TOTAL</b>	<b>10.0</b>	<b>5.5</b>	

## 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
- Research Analysis: 10.0/10
- Testing Quality: 10.0/10
- Code Documentation: 10.0/10
- Version Management: 10.0/10

## Critical Gaps (<5 points)

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

## Recommended Actions

### Immediate Priority:

- Address Extensibility (0/10 points)
- Address Quality Standards (0/10 points)

### High Priority:

- Improve Ui Ux (4.0/10 points)