

Submission Report

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Project Objective

Develop a To-Do List Web App using Django with Raw SQL, REST APIs, Docker support and testing.

Requirements Implemented

- ✓ CRUD Tasks
- ✓ REST APIs
- ✓ SQLite + Raw SQL
- ✓ Template based UI
- ✓ Docker Deployment
- ✓ Automated Testing

Architecture

UI → Views → Service Layer → Raw SQL → Database

Clean separation of layers for easy maintainability.

API Documentation

- ✓ GET /api/tasks/
- ✓ POST /api/tasks/
- ✓ GET /api/tasks//
- ✓ PUT /api/tasks//
- ✓ DELETE /api/tasks//

Testing Summary

- ✓ Task List UI — PASS
- ✓ Add Task UI — PASS
- ✓ Update Task UI — PASS
- ✓ Delete Task UI — PASS
- ✓ API JSON /api/tasks — PASS
- ✓ Automation (pytest) — PASS

Conclusion

Backend fully functional and ready for demonstration.