

## FlowTrack Workspace (Anonymized) - Case Study

Role: Solo Full-Stack Developer

Tech Stack: Python, Flask, REST APIs, SQL, HTML, CSS, JavaScript

### Project Overview

FlowTrack Workspace is an anonymized project management web app inspired by modern workflow tools, created to support task tracking, role-based visibility, and team productivity workflows.

### Business Need

The requirement was to build a web application where work items can be organized, tracked, and managed through structured dashboards and controlled access.

### My Responsibilities

- Built the project end-to-end as an individual contributor.
- Developed backend APIs and database models for task/project workflows.
- Implemented authentication, authorization, and user session management.
- Created responsive UI pages for dashboards and workflow actions.
- Refined codebase structure and removed duplicate/backup clutter.

### Key Features Delivered

- Secure user authentication and role-based access.
- Task and workflow management modules.
- Dashboard views for quick project status visibility.
- CRUD operations for core entities.
- REST-style endpoints for scalable feature integration.
- Clean and maintainable project structure for future enhancements.

### Engineering Focus

- Modular backend design for readability and maintainability.
- Validation and error-handling for stable user actions.
- Reusable frontend components and responsive layout behavior.

### Outcome

- Delivered a practical internal productivity solution.
- Established a strong foundation for feature growth (notifications, reports, integrations).
- Demonstrated full-stack ownership from architecture to implementation.

### Portfolio Note

This case study is anonymized. No confidential company data, credentials, or private identifiers are included.