



## Modern Full-Stack Project Management System

A feature-complete project management system built with FastAPI + Vue 3 + PostgreSQL

Python 3.12 | FastAPI 0.104 | Vue.js 3.4 | PostgreSQL 16 | Tailwind CSS 4.x | Docker Compose | License MIT

English | [简体中文](#)

## ✨ Features

### Smart Dashboard

Real-time project statistics, progress charts, and activity timeline for a complete overview

### Project Management

Full project lifecycle management with progress tracking, status filtering, and team collaboration

### Task Management

Task assignment and tracking, priority management, status workflow, and multi-dimensional filtering

### Daily Reports

Daily work records with history viewing and one-click PDF export

### Notification Center

Real-time message push, category filtering, and read/unread status management

### Settings Center

Theme switching, notification preferences, and data import/export

### Secure Authentication

JWT Token authentication, bcrypt password encryption, and comprehensive access control

### File Attachments

MinIO S3-compatible storage with presigned URL direct upload for security and efficiency

## 🛠 Tech Stack

### Frontend

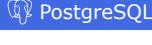
Technology	Version	Description
JavaScript	ES6+	Native modular development, framework-free version
Vue.js	3.4	Progressive migration version with Composition API
Tailwind CSS	4.x	Utility-first CSS with responsive design

Technology	Version	Description
 Chart.js	4.4	Data visualization charts
 Vite	5.x	Next-generation frontend build tool

## Backend

Technology	Version	Description
 Python	3.12	Primary development language
 FastAPI	0.104	High-performance async web framework
 SQLAlchemy	2.0	ORM database mapping
 Pydantic	2.5	Data validation and serialization
 JWT	-	Stateless authentication

## Data Storage

Technology	Version	Description
 PostgreSQL	16	Primary database with complex query support
 MinIO	Latest	S3-compatible object storage
 LocalStorage	-	Frontend offline data cache

## DevOps

Technology	Description
 Docker	Containerized deployment
 Docker Compose	Multi-service orchestration
 Alembic	Database migration management

## Quick Start

### Option 1: Docker Compose (Recommended)

```
# 1. Clone the repository
git clone https://github.com/yourusername/projectflow.git
cd projectflow

# 2. Configure environment variables
cp .env.example .env
# Edit .env file to set database password and JWT secret
```



```
|   |   └── main.py           # FastAPI entry
|   |   └── core/             # Config, security, deps
|   |   └── models/            # SQLAlchemy models
|   |   └── schemas/           # Pydantic schemas
|   |   └── api/routes/        # API routes
|   |
|   └── ...
|
└── vue-migration/          # Vue 3 version
    └── src/
        ├── views/             # Page components
        ├── stores/              # Pinia state management
        └── ...

```

## 🔧 API Overview

Full API documentation available at <http://localhost:8000/docs>

### Authentication

Method	Endpoint	Description
POST	/auth/register	User registration
POST	/auth/login	User login (OAuth2 form)

### Projects

Method	Endpoint	Description
GET	/projects	List projects
POST	/projects	Create project
GET	/projects/{id}	Get project details
PATCH	/projects/{id}	Update project
DELETE	/projects/{id}	Delete project

### Tasks

Method	Endpoint	Description
GET	/tasks	List tasks (with filtering)
POST	/tasks	Create task
PATCH	/tasks/{id}	Update task
DELETE	/tasks/{id}	Delete task

## Contributing

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Contributions are welcome! Please follow these steps:

1. Fork this repository
2. Create a feature branch ( `git checkout -b feature/AmazingFeature` )
3. Commit your changes ( `git commit -m 'Add some AmazingFeature'` )
4. Push to the branch ( `git push origin feature/AmazingFeature` )
5. Open a Pull Request

## License

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This project is licensed under the [MIT License](#).

## Contact

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If this project helps you, please give it a  Star!

Made with  by Lynn