PyFlow – API-First Automation Engine (Zapier Clone)

Tech Stack:

1. Backend: FastAPI, Celery
2. Database: PostgreSQL
3. Authentication: OAuth2
4. Task Scheduling: Celery
5. Deployment: GitHub (DhanushK30)

Description:

1. Designed and built an automation engine inspired by Zapier to connect APIs into workflows.
2. Implemented FastAPI backend with modular workflow builder architecture.
3. Integrated OAuth2 for secure third-party API access and authentication.
4. Used Celery for distributed task scheduling and background job execution.
5. Stored workflows and execution logs in PostgreSQL with scalable schema design.
6. Deployed project to GitHub as an open-source tool for workflow automation.