

Workflow Automation Platform (OverlayMVP)

WHAT IT IS

AI-powered Chrome extension + web dashboard to record and guide interactive web workflows (SOP walkthroughs).

WHO ITS FOR

Department managers at SMBs (10-500 employees) who need a repeatable way to capture and teach software processes to their teams.

HOW TO RUN (MINIMAL)

- Prereqs: Node 18+, Python 3.11+, Chrome
- Install JS deps: npm install (repo root)
- Backend deps: cd backend; python -m venv venv; source venv/bin/activate; pip install -r requirements.txt
- Configure env: cp backend/.env.example backend/.env; set JWT_SECRET_KEY + (optional) ANTHROPIC_API_KEY
- Migrate DB: cd backend; alembic upgrade head
- Start: uvicorn app.main:app --reload --port 8000
- Start UI: cd dashboard; npm run dev (<http://localhost:3000>)
- Extension: cd extension; npm run build; load extension/dist in Chrome
- Celery/AI: celery -A app.celery_app worker; Redis install/start steps: Not found in repo

WHAT IT DOES

- Records user actions + screenshots (Chrome extension)
- Stores captured steps locally (IndexedDB) during recording
- Uploads workflows + screenshots to backend REST API
- AI step labeling in background (Celery task)
- Walkthrough overlay guides users on live sites
- Dashboard to sign up/login and review workflows + step details
- Company features: invites, roles, permissions, notifications, health endpoints

HOW IT WORKS (ARCHITECTURE)

Components:

- Extension (MV3): popup UI + background service worker + content scripts
- Backend: FastAPI routers (auth, workflows, steps, screenshots, healing, company, invites, notifications, health, users)
- DB: SQLAlchemy + SQLite by default (see backend/.env.example)
- Async: Celery worker + Redis broker for AI labeling
- Storage: S3 if configured; else local backend/screenshots (served at /screenshots)
- Dashboard: React + Vite app (see dashboard/.env.example)

Data flow (happy path):

- 1) Record in extension -> steps/screenshots captured
- 2) Upload to backend -> DB records stored
- 3) Trigger processing -> Celery labels steps -> notification created
- 4) Review in dashboard; run walkthrough overlay in extension