# 🔧 Project Run & Test Guide

## 🚀 How to Run the backend

1. Open PowerShell

2. Navigate to the project root folder:

cd C:\Users\User\Desktop\sadna\Guardify-AI

3. Activate the virtual environment:

& .\venv\Scripts\Activate.ps1

4. Set the PYTHONPATH so Python can recognize the project structure:

$env:PYTHONPATH = "."

5. Run the app as a module:

python -m backend.run

## 6. Running the celery and redis: Raise redis queue: open docker desktop first then run: docker run --name redis -d -p 6379:6379 redis Raise the celery server: celery -A backend.celery\_app worker --loglevel=info --pool=solo --queues=analysis Raise the flower (not really needed): celery -A backend.celery\_app flower --port=5555

## 🚀 How to Run the frontend

1. Open PowerShell

2. Navigate to the project folder:

cd C:\Users\User\Desktop\sadna\Guardify-ai\UI\Guardify-UI

3. Run the app:

npm run dev

## 🧪 How to Run the Tests

1. Open PowerShell

2. Navigate to the project root folder:

cd C:\Users\User\Desktop\sadna\Guardify-AI

3. Activate the virtual environment:

& .\venv\Scripts\Activate.ps1

4. Set the PYTHONPATH:

$env:PYTHONPATH = "."

5. Run all tests:

pytest backend/tests

Optional: Run a specific test file:

pytest backend/tests/test\_entities\_dto.py

Optional: Show print() outputs:

pytest -s backend/tests/test\_entities\_dto.py

Optional: Ignore warnings:

pytest -p no:warnings