Al-Driven File Management System Setup Cheat Sheet (Python 3.13 Edition)

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STEP 1. Clone the Repository
    git clone https://github.com/<your-team-repo>.git
   cd ai-file-management-system
STEP 2. Create and Activate Virtual Environment
   python -m venv venv
   venv\Scripts\activate # Windows
    source venv/bin/activate # Mac/Linux
STEP 3. Upgrade pip
   python -m pip install --upgrade pip setuptools wheel
STEP 4. Install Dependencies
   pip install -r requirements.txt
    (requirements.txt must contain:)
    fastapi==0.115.0
   uvicorn==0.30.6
    streamlit==1.39.0
   psycopg2-binary==2.9.10
    SQLAlchemy==2.0.36
    qdrant-client==1.13.2
    sentence-transformers==3.2.1
    transformers==4.46.3
    torch==2.7.0
   pytesseract==0.3.13
   python-docx==1.1.2
    PyPDF2==3.0.1
    pdfplumber==0.11.0
STEP 5. Set Up PostgreSQL Database
```

CREATE DATABASE file_manager;

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STEP 6. Run Qdrant Vector DB
    docker run -p 6333:6333 qdrant/qdrant
    -> Test in browser: http://localhost:6333/dashboard

STEP 7. Install and Verify Tesseract OCR
    tesseract --version

STEP 8. Run FastAPI Backend
    uvicorn backend.main:app --reload
    -> Visit: http://127.0.0.1:8000/docs

STEP 9. Run Streamlit Frontend
    streamlit hello

STEP 10. Verify Installation
        python -c "import torch, transformers, fastapi, streamlit; print('Torch:', torch.__version__, '| Transformers:', transformers.__version__)"
    Expected: Torch 2.7.0 | Transformers 4.46.3
```