WalsoftAI-Genealogy: Environment Setup & **Configuration Appendix**

Document Type: Technical Appendix

Related To: MVP Implementation Blueprint Maintainer: Philip Tambiti Leo Walekhwa

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Purpose

This appendix captures all environmental, infrastructure, and setup-specific decisions made during the MVP development of WalsoftAI-Genealogy. It is meant to:

- Serve as a deployment and onboarding guide
- Ensure reproducibility across dev, test, and prod environments
- Preserve configuration decisions that may affect scaling, debugging, or upgrades



1. Local and Server Directory Structure

Context Base Path

C:/apps/genealogy/ Local Dev

Remote Prod /home/philip/apps/genealogy/

💇 2. Python Environment

- Virtual environment name: genealogy_venv
- **Python version used:** Matches system Python 3.12+

Activation Example:

cd C:/apps/genealogy .\genealogy_venv\Scripts\activate



3. Environment Variables (.env)

A .env file is used for development. It is excluded from Git via .gitignore.

Example . env contents:

 $\label{lem:secret_KEY=_fjy_lga_bz5a=-m24u(f&j=!=3_x2tmotd5w=_n\#ni9\%)sh^n DEBUG=True} SECRET_KEY=_fjy_lga_bz5a=-m24u(f\&j=!=3_x2tmotd5w=_n\#ni9\%)sh^n DEBUG=True$

DATABASE_NAME=genealogy_db
DATABASE_USER=postgres
DATABASE_PASSWORD=@0BusiaKenya
DATABASE_HOST=localhost
DATABASE_PORT=5432

4. PostgreSQL Setup (Windows)

- **Version Installed:** PostgreSQL 17.5
- Installation Path: C:\Program Files\PostgreSQL\17\bin
- **psql added to PATH** for CLI access
- Database created: genealogy_db
- User: postgres
- Password: @0BusiaKenya

✓ Database Creation:

CREATE DATABASE genealogy_db;

😈 5. Django Superuser

Created using:

python manage.py createsuperuser

Credentials:

- Username / Email: sales@walsoftcomputers.com
- **Role:** Full Superuser Access

6. Git & Ignore Rules

Custom .gitignore includes:

Secrets & environments
.env

```
genealogy_venv/
# Compiled files
_pycache__/
*.py[cod]
# IDEs
.vscode/
.idea/
# Static & media (optional)
static/
media/
# Migrations (if regenerating often)
*/migrations/
```

🛠 7. Django Settings Design

- Settings split by environment: base.py, dev.py, prod.py
- Environment switcher logic via DJANGO_ENV in settings/__init__.py

Example logic:

env_mode = os.environ.get("DJANGO_ENV", "dev")

8. Recommended Practices Being Followed

Practice	Implemented?	Notes
UUID primary keys	~	On all core models (Person, Marriage, Event)
JSONFields for aliases/metadata	<u>~</u>	aliases, cultural_notes in Person
Modular apps	✓	people/, events/, relationships/, etc.
AI-ready narrative design	✓	narratives/structured for jinja2 and llama- cpp
Versioning with history	✓	django-simple-history installed and used

🌎 9. Local AI Package Notes

Package	Status	Notes
llama-cpp-python	Installed	For local story generation
jinja2	✓ Installed	Prompt templating
fuzzywuzzy	Installed	For deduplication

Package Status Notes

django-simple-history ✓ Installed For audit/versioning

python-dotenv ✓ Installed For .env loading in dev

10. Notes for Future Deployers

- Always regenerate SECRET_KEY for production
- Switch DEBUG=False in prod.py
- Configure media, static, and NGINX properly
- · Do not commit .env, photos, or raw JSON config files unless explicitly versioned

Document prepared to ensure full traceability of all system and environmental choices made during MVP phase of the WalsoftAI-Genealogy project.

Maintained by: Philip T. Walekhwa **Contact:** sales@walsoftcomputers.com