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**docs: add WSL runbook, WSL compose file,
and Taiga JSON export to report catalog
[PreRelease-1.0-6-ga7732e0] \$**

Final Project Report (Living Document)

What Has Been Done

1. **Core Architecture:** Deployed a resilient 8-container local fallback Docker Compose stack (MySQL, Streamlit UI, local Ollama LLM, anonymous SearXNG search, secure Nginx proxy, and local Zabbix Server/Web/Agent observability suite).
2. **Database Optimization:** Successfully loaded OpenFoodFacts records and utilized advanced vertical partitioning and FULLTEXT indices.
3. **Clinical Subquery Strategy:** Refactored the core Pandas/SQL query pipeline to use subquery limiting, resolving Cartesian join explosions and reducing query latency to ~0.04s.
4. **Monitoring & Security:** Nginx securely proxies traffic on Port 80. Zabbix actively monitors proxy and server health, dynamically handling SNMP/alert loops in local/offline fallback mode.
5. **Git Versioning:** Implemented Git `.gitattributes` to push \$Id:
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lanfr144@school.lu 2026/05/31 15:41:33 docs: add WSL runbook, WSL
compose file, and Taiga JSON export to report catalog
[PreRelease-1.0-6-ga7732e0] \$ tracking directly into the Python Application
UI.

What Needs To Be Done (Day 2 Operations)

1. **SSL/TLS Certificates:** The Nginx proxy is functional on HTTP port 80. Port 443 (HTTPS) must be configured with a Let's Encrypt certificate for true production encryption.
2. **User Acceptance Testing (UAT):** Clinical dietitians should rigorously test the AI Chat constraints and Plate Builder to ensure edge cases are handled safely.
3. **Advanced Rate Limiting:** Limit the number of AI requests per user using a sliding window algorithm in `app.py`.

What Is The Next Step

- Execute the `data_sync.sh` cron job monthly.
- Maintain the automated `backup_db.sh` 7-day retention cycle.
- Begin the hand-off to the operational team for Phase 2 feature requests.