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Local Food AI: Retro Planning

Document compiled in accordance with BTS-AI DOPRO Guidelines on Backward/Reverse Planning.

1. Concept of Retro Planning

As defined in the course material, Retro Planning (Backward Planning) is constructed in reverse chronological order from a fixed deadline. This ensures that the D-Day (Capstone Submission) is immutably fixed, and all prior sprints and tasks are mathematically bound to ensure the feasibility of the project.

Our delivery date is set for **May 15th, 2026**.

2. Reverse Chronological Timeline (Gantt Structure)

gantt

```
title Local Food AI - Capstone Reverse Plan
dateFormat YYYY-MM-DD
axisFormat %m-%d

section Delivery & Sign-off
Final Capstone Submission :milestone, m1, 2026-05-15, 0d
Disaster Recovery & PoC Test:done, 2026-05-13, 2d
Documentation Finalization :done, 2026-05-11, 2d

section Feature Freeze
Web Search (SearXNG) Integration :done, 2026-05-12, 1d
Medical Constraints & PDF Export :done, 2026-05-09, 3d
AI Meal Planner (Ollama 1B) :done, 2026-05-05, 4d

section Core Architecture
Plate Builder & Macros :done, 2026-05-01, 4d
Clinical Explorer Search :done, 2026-04-28, 3d
Zabbix Telemetry & SNMP :done, 2026-04-26, 2d

section Foundation
OpenFoodFacts Ingestion (3GB) :done, 2026-04-20, 6d
Docker Multi-Container Setup :done, 2026-04-18, 2d
Taiga/Git Agile Integration :done, 2026-04-15, 3d
```

3. Resource & Buffer Analysis

Milestone Buffers: By utilizing a reverse plan, we identified that the massive 3GB

OpenFoodFacts dataset required a 6-day window for background ingestion without blocking the frontend development.

Leeway Analysis: The final 2 days (May 13 - 15) are strictly reserved for Disaster Recovery (DR) drills and Multi-VM Proof of Concept (PoC) validation, ensuring the presentation runs flawlessly regardless of infrastructure hiccups.