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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.