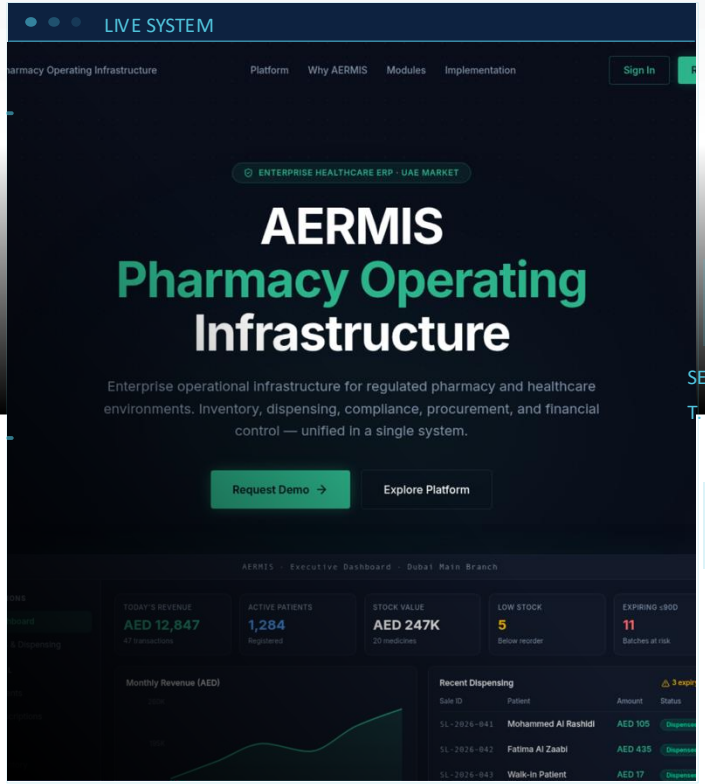
PROJECT NO. 2026-UAE

AERMIS

PHARMACY OPERATING INFRASTRUCTURE

Enterprise platform built for UAE-regulated pharmacy operations operations



DOMAIN	MARKET	REV

SEC
T. A

SCALE: NTS

REGION : UAE

SYSTEM OVERVIEW

6 integrated modules — one unified platform

MODULE 01

POS & Dispensing

Prescription sales, cash drawer, receipt printing, drug lookups

MODULE 02

Inventory & Stock

Batch tracking, expiry alerts, reorder levels, supplier POs

MODULE 03

Patient Records

Emirates ID, medical history, allergies, chronic conditions

AED CURRENCY

MODULE 04

Prescriptions

Doctor Rx tracking, controlled drugs, refill management

FIFO / FEFO

MODULE 05

Finance & Invoicing

VAT invoices, insurance claims, daily revenue reports

DHA COMPLIANT

MODULE 06

Analytics & Reports

Live KPIs, branch comparison, export to PDF/Excel

CONTROLLED DRUGS

5% UAE VAT

REAL-TIME DATA

EXECUTIVE DASHBOARD

Real-time operational visibility across all branches — revenue, dispensing volume, stock health, and pending alerts in one view.



DAILY REVENUE
AED 48,200

SCRIPTS / DAY
312
prescriptions

STOCK VALUE
AED 1.2M

EXPIRY ALERTS
14
items flagged

SCALE: NTS

POS & DISPENSING

Full prescription-to-sale workflow with controlled drug compliance

DISPENSING WORKFLOW

01

Prescription Intake

Scan barcode or search by Emirates ID — links directly to patient profile and medical history

02

DDA controlled drug check, allergy cross-reference, and stock availability availability confirmation

03

Cash, card, insurance — VAT-compliant receipt, stock auto-deducted, ledger updated

04

Full audit trail — pharmacist ID, timestamp, batch number recorded for DHA compliance

TECHNICAL SPECS

PAYMENT METHODS

Cash · Card · Insurance

CURRENCY

AED — UAE Dirham

TAX COMPLIANCE

5% UAE VAT

DRUG CONTROL

DDA Category A/B

INVENTORY & STOCK CONTROL

Batch-level traceability — from supplier delivery to patient dispensing

METHOD
FIFO / FEFO
FEFO

STOCK TRACKING

Batch & Expiry

Every medicine tracked by batch number and expiry date. System auto-selects FEFO batches at point of sale — eliminating expired-drug risk.

— GS1 BARCODES

REORDER ALERTS

Smart Reorder Levels

Min/max thresholds per SKU. System generates purchase orders automatically when stock falls below configured safety levels.

— AUTO-PO DRAFT

SUPPLIER NETWORK

Supplier Management

Full supplier roster with contact, lead time, and credit terms. All deliveries reconciled against POs — discrepancies flagged immediately.

— GRN WORKFLOW

15
DB TABLES

100%
BATCH TRACED

0
MANUAL STOCK COUNTS NEEDED
NEEDED

Real-time
STOCK VALUATION

PATIENT & CLINICAL RECORDS

Longitudinal patient profiles — Emirates ID verified, DHA-aligned aligned medical history, allergy flags, and complete dispensing history dispensing history per patient.

Patient lookup and registration using National ID — verified identity at identity at every encounter

Active allergy alerts block dispensing — pharmacist override requires documented justification

PATIENT RECORD

Mohammed Al Rashidi

ID: 784-1985-1234567-1 · DOB: 15/03/1985

ALLERGIES

ALERT

Penicillin · NSAIDs

CHRONIC CONDITIONS

Type 2 Diabetes · Hypertension

RECENT PRESCRIPTIONS

Metformin 500mg × 60 12 May 2026

Amlodipine 5mg × 30 12 May 2026

Atorvastatin 20mg × 30 28 Apr 2026

INSURANCE

Daman · Network A

Policy: DM-2026-88123 · Valid: Dec 2026

FINANCE & REPORTING

VAT-compliant invoicing, insurance reconciliation, and daily P&L visibility

TAX INVOICE

INV-2026-05-0312

DATE 12 May 2026

PATIENT M. Al Rashidi

SUBTOTAL AED 285.00

VAT (5%) AED 14.25

INSURANCE - AED 220.00

PATIENT PAYS AED 79.25

FINANCIAL CAPABILITIES

UAE VAT Compliance

FTA-aligned tax invoices with TRN number, VAT breakdown, and e-invoicing readiness

Daman, Thiqa, and Nextcare claims — co-pay split, rejection tracking, monthly statement generation

End-of-day cash reconciliation, shift summary, revenue by payment method — one-click PDF export

Supplier payments, operational costs, salary expense — full monthly P&L per branch

TECHNOLOGY STACK

Production-deployed on VPS · SSL secured · Dual-language UI

FRONTEND

React + Vite

- Tailwind CSS + shadcn/ui
- TanStack Query
- TypeScript 5.9
- Arabic RTL support

BACKEND

Express 5 + Node 24 24

- OpenAPI contract-first
- Zod validation
- HMAC token auth
- pnpm monorepo

DATABASE

PostgreSQL + Drizzle Drizzle

- 15 production tables
- Relational integrity
- Type-safe queries
- numeric(14,2) currency

DEPLOYMENT

VPS · Nginx · PM2 PM2

- Let's Encrypt SSL
- IPv6 + IPv4 ready
- UAE-region VPS
- Port 8083 API

LIVE SYSTEM

aermis.thgapp.com

Platform: /platform/ · API: /api/