

GESTIMA

v1.10.1

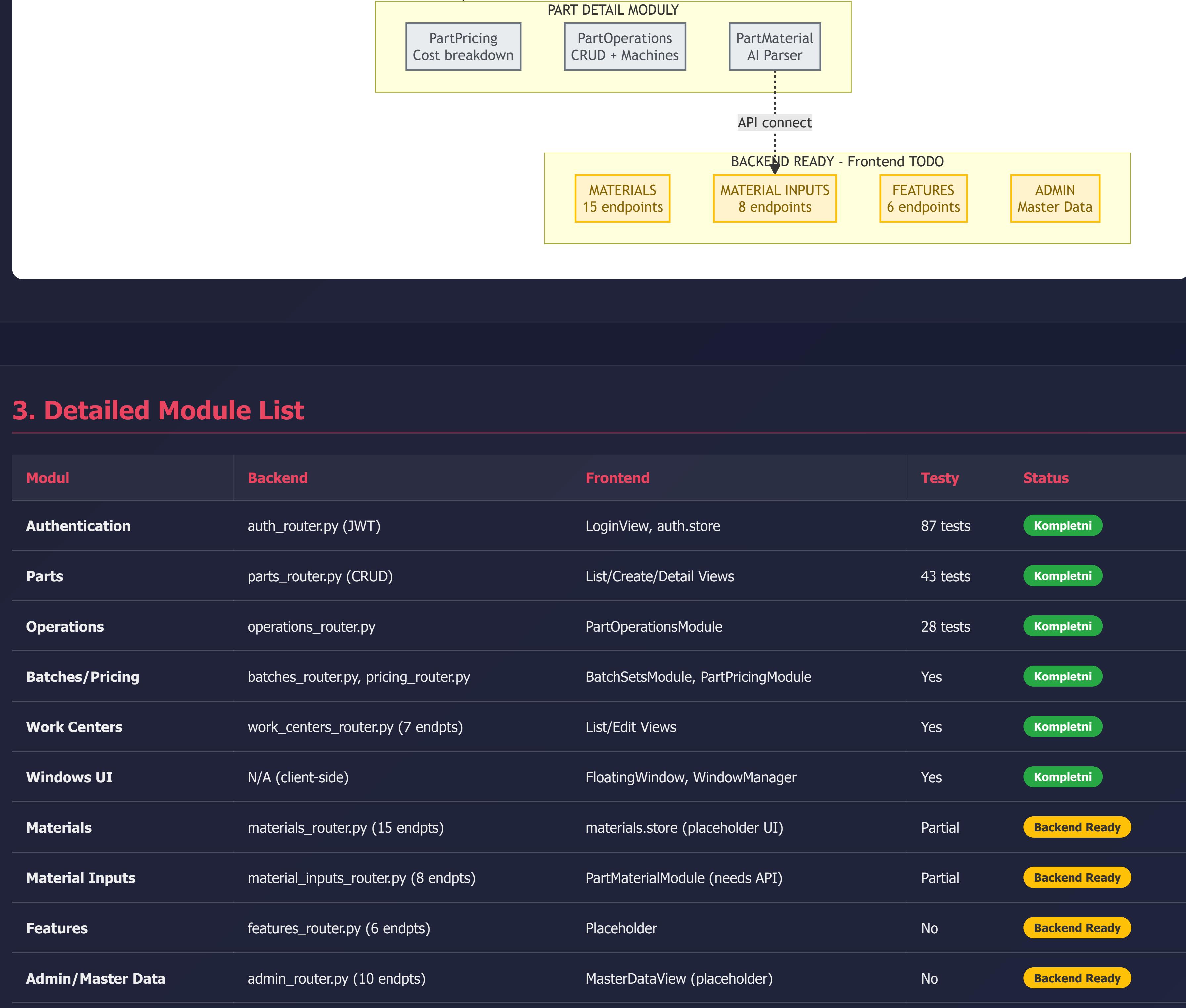
Module Development Status & Architecture

2026-01-29 | CNC Cost Calculator to Full ERP/MES

1. Development Status Summary

KOMPLETNÍ (FE + BE + Tests)	BACKEND READY (API done, FE TODO)	PLANOVANÉ (Roadmap)
8 Auth (Login, JWT, Roles) Parts (List, Create, Detail) Batch Sets (Pricing) Work Centers Windows UI Settings PartPricing Module PartOperations Module	6 Materials (15 endpoints) MaterialInputs (8 endpoints) Features (6 endpoints) Admin Master Data Cutting Conditions Material Norms	12+ v2.0: Customers, Quotes, Orders v3.0: Drawings, BOM, ECN/ECO v4.0: WorkOrders, Scheduling, MES v5.0: Tool Library, Tech Sheets

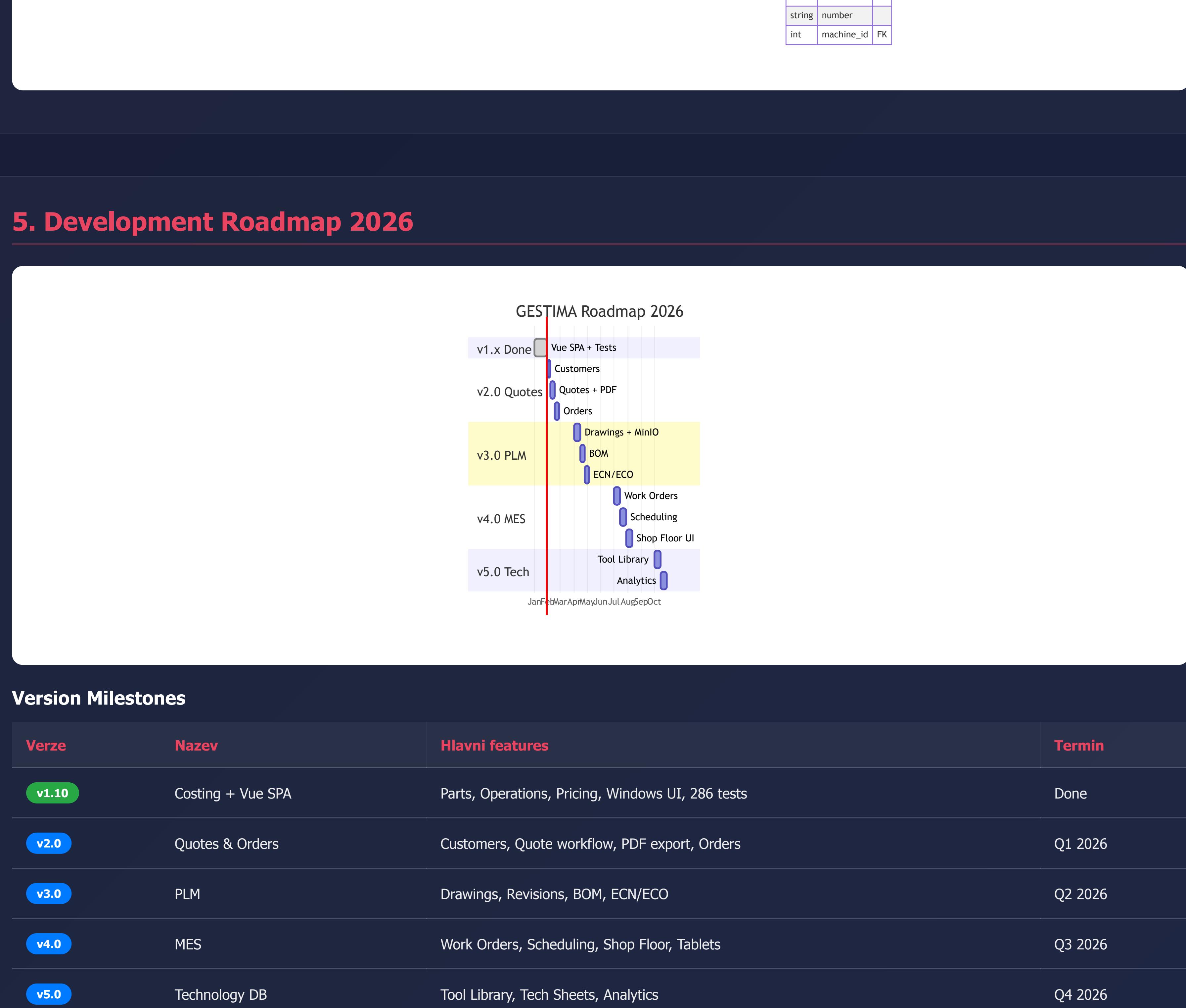
2. Module Status Flow



3. Detailed Module List

Modul	Backend	Frontend	Testy	Status
Authentication	auth_router.py (JWT)	LoginView, auth.store	87 tests	Kompletní
Parts	parts_router.py (CRUD)	List/Create/Detail Views	43 tests	Kompletní
Operations	operations_router.py	PartOperationsModule	28 tests	Kompletní
Batches/Pricing	batches_router.py, pricing_router.py	BatchSetsModule, PartPricingModule	Yes	Kompletní
Work Centers	work_centers_router.py (7 endpts)	List/Edit Views	Yes	Kompletní
Windows UI	N/A (client-side)	FloatingWindow, WindowManager	Yes	Kompletní
Materials	materials_router.py (15 endpts)	materials.store (placeholder UI)	Partial	Backend Ready
Material Inputs	material_inputs_router.py (8 endpts)	PartMaterialModule (needs API)	Partial	Backend Ready
Features	features_router.py (6 endpts)	Placeholder	No	Backend Ready
Admin/Master Data	admin_router.py (10 endpts)	MasterDataView (placeholder)	No	Backend Ready
Customers	-	-	-	v2.0 Q1
Quotes	-	-	-	v2.0 Q1
Orders	-	-	-	v2.0 Q1
Drawings/PLM	-	-	-	v3.0 Q2
BOM	-	-	-	v3.0 Q2
Work Orders/MES	-	-	-	v4.0 Q3
Technology DB	-	-	-	v5.0 Q4

4. Entity Relationship Diagram



5. Development Roadmap 2026

Version	Název	Hlavní funkce	Termin
v1.10	Costing + Vue SPA	Parts, Operations, Pricing, Windows UI, 280 tests	Done
v2.0	Quotes & Orders	Customers, Quote workflow, PDF export, Orders	Q1 2026
v3.0	PLM	Drawings, Revisions, BOM, ECN/ECO	Q2 2026
v4.0	MES	Work Orders, Scheduling, Shop Floor, Tablets	Q3 2026
v5.0	Technology DB	Tool Library, Tech Sheets, Analytics	Q4 2026

6. Technology Stack

Backend	Frontend	Infrastructure
FastAPI - REST API SQLAlchemy v2 - Validation ORM Pydantic v2 - Validation SQLite + SQLAlchemy - Database	Vue 3 - SPA Framework TypeScript - Type Safety Pinia - State Management Vuex - State Management Vitest - Unit Tests	Node.js - Build Tool MongoDB - Database (v3.0) MinIO - File Storage (v3.0) Capacitor - Mobile (v4.0)

GESTIMA Architecture Overview | Generated 2026-01-29
From CNC Cost Calculator to Full ERP/MES Platform