

## 1. Development Status Summary

KOMPLETNI (FE + BE + Tests)

8

Auth (Login, JWT, Roles)  
Parts (List, Create, Detail)  
Batch Sets (Pricing)  
Work Centers  
Windows UI  
Settings  
PartPricing Module  
PartOperations Module

BACKEND READY (API done, FE TODO)

6

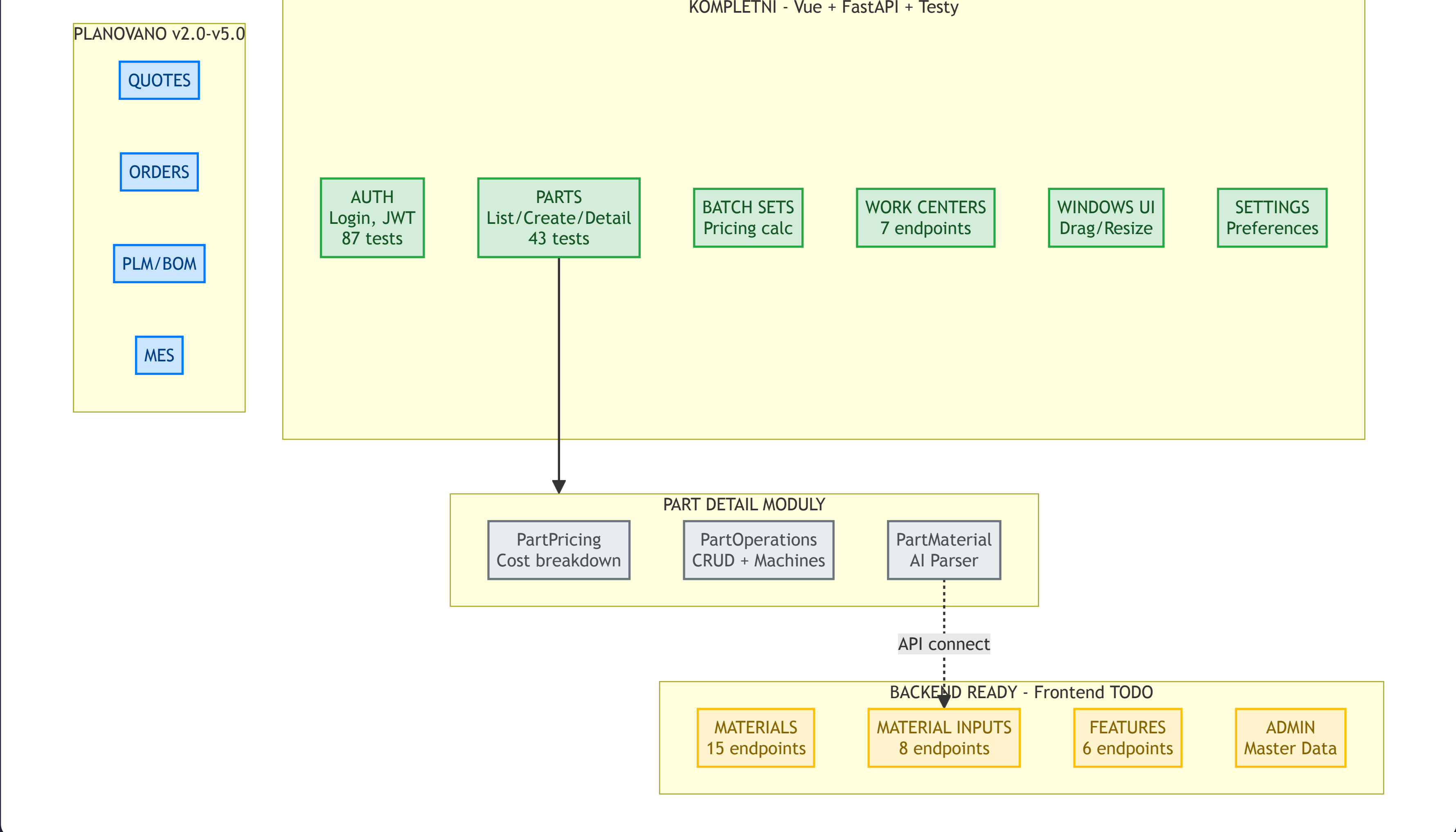
Materials (15 endpoints)  
MaterialInputs (8 endpoints)  
Features (6 endpoints)  
Admin Master Data  
Cutting Conditions  
Material Norms

PLANOVANO (Roadmap)

12+

v2.0: Customers, Quotes, Orders  
v3.0: Drawings, BOM, ECN/ECO  
v4.0: WorkOrders, Scheduling, MES  
v5.0: Tool Library, Tech Sheets

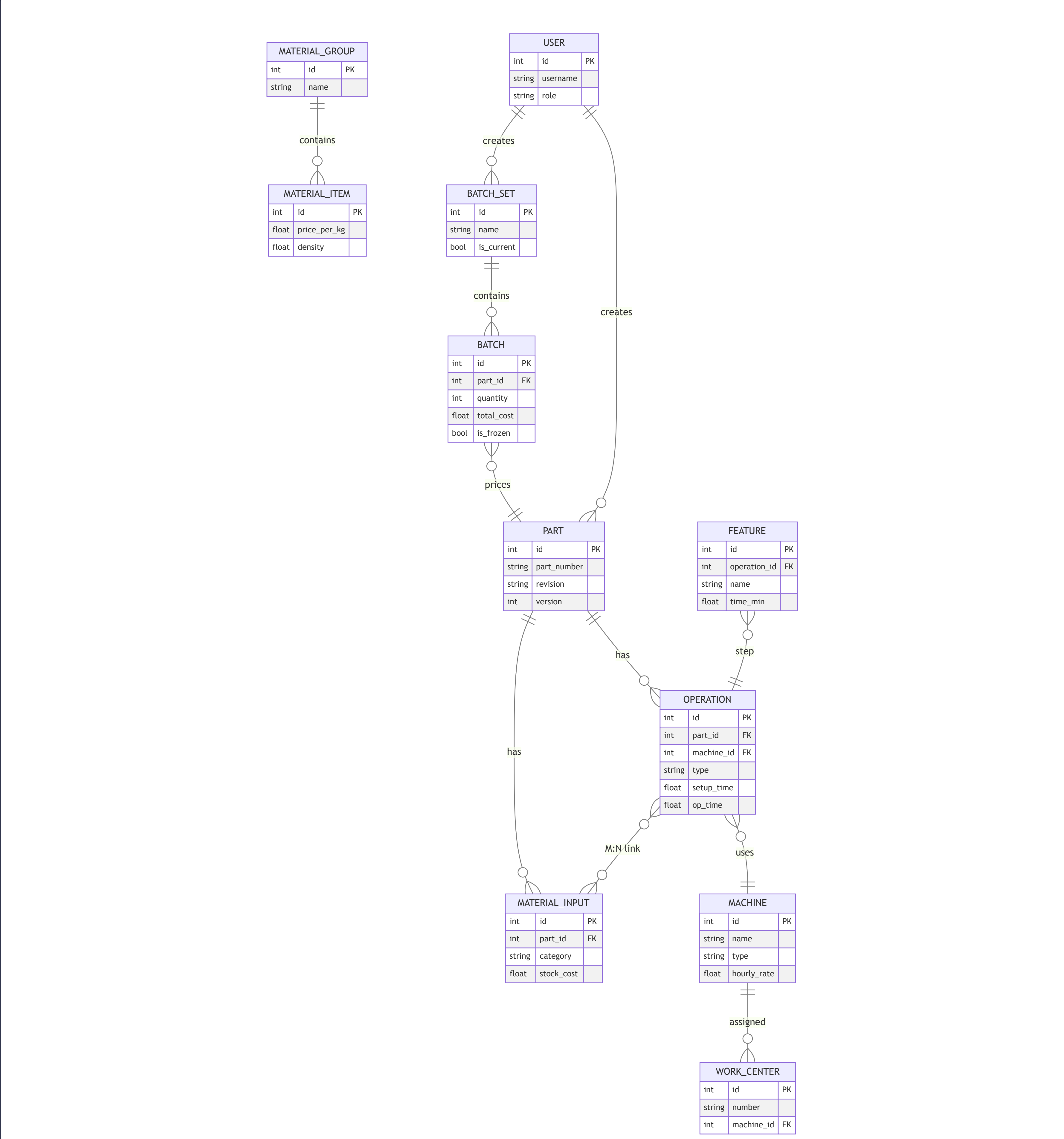
## 2. Module Status Flow



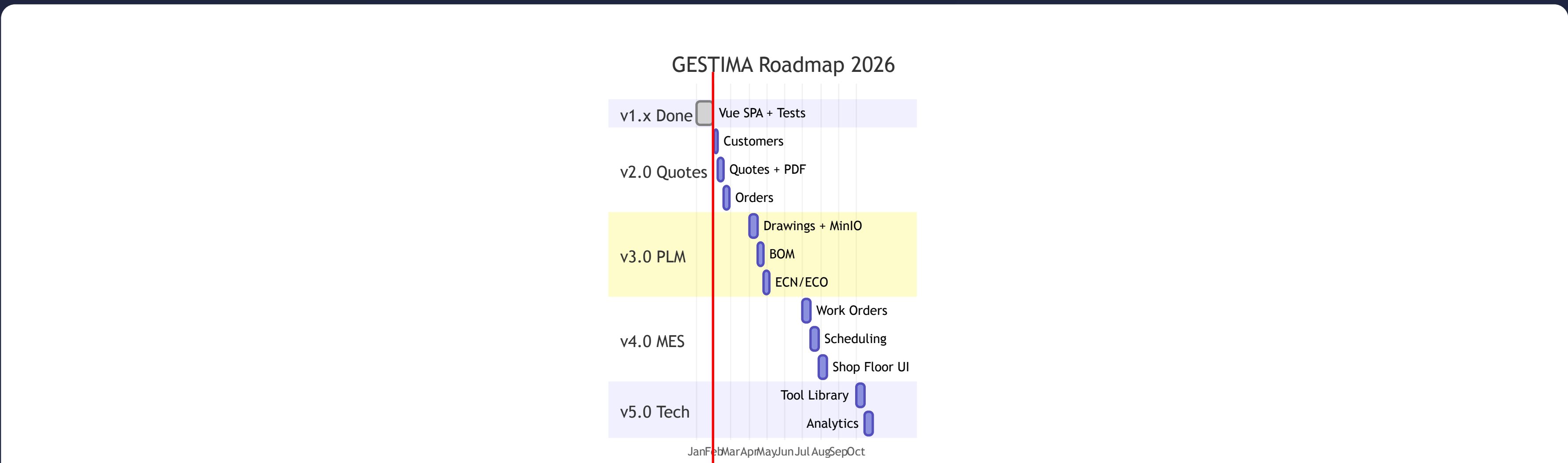
## 3. Detailed Module List

Modul	Backend	Frontend	Testy	Status
Authentication	auth_router.py (JWT)	LoginView, auth.store	87 tests	Kompletni
Parts	parts_router.py (CRUD)	List/Create/Detail Views	43 tests	Kompletni
Operations	operations_router.py	PartOperationsModule	28 tests	Kompletni
Batches/Pricing	batches_router.py, pricing_router.py	BatchSetsModule, PartPricingModule	Yes	Kompletni
Work Centers	work_centers_router.py (7 endpts)	List/Edit Views	Yes	Kompletni
Windows UI	N/A (client-side)	FloatingWindow, WindowManager	Yes	Kompletni
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 Milestones

Verze	Nazev	Hlavní features	Termin
v1.10	Costing + Vue SPA	Parts, Operations, Pricing, Windows UI, 286 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

FastAPI - REST API  
SQLAlchemy 2.0 - Async ORM  
Pydantic v2 - Validation  
SQLite + WAL - Database  
pytest - Testing

Frontend

Vue 3 - SPA Framework  
TypeScript - Type Safety  
Pinia - State Management  
Vue Router - Navigation  
Vitest - Unit Tests

Infrastructure

Vite - Build Tool  
Alembic - Migrations  
MinIO - File Storage (v3.0)  
Capacitor - Mobile (v4.0)