

Project Structure

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Monorepo Layout

The Plock monorepo uses Turborepo for frontend orchestration and Gradle for the Kotlin backend.

Root folders:

- **backend/** — Kotlin/Ktor backend (Gradle). Namespace: no.alai.plock
 - Application.kt — Ktor entry point
 - plugins/ — Routing, serialization, auth, CORS
 - routes/ — API routes by domain (auth, inventory, orders, picking, carriers, ai)
 - models/ — Data classes + Exposed table definitions
 - services/ — Business logic
 - integrations/ — Fortnox, PostNord, DHL, Instabee
 - **frontend/** — Micro-Frontend apps (Vite + Module Federation)
 - shell/ — Shell MFE: layout, nav, auth, routing (always deployed)
 - mfe-inventory/ — Inventory management (independently deployable)
 - mfe-orders/ — Order management (independently deployable)
 - mfe-picking/ — Picking + wave management (independently deployable)
 - mfe-settings/ — Settings + users (independently deployable)
 - mfe-ai/ — AI Chat + analytics (independently deployable)
 - **packages/** — Shared libraries
 - ui/ — @plock/ui: shadcn/ui base + Plock custom components, Tailwind CSS 4 design tokens
 - types/ — @plock/types: shared TypeScript types (API contracts)
 - utils/ — @plock/utils: shared utilities
 - **docs/** — All documentation (mirrors BookStack)
 - **brand/** — Brand assets (colours, logo, typography)
 - **design/** — Figma exports, wireframes (via frontend-design skill — ZAKON #3)
 - **infrastructure/** — Docker Compose, CI/CD, K8s manifests
 - **legal/** — Swedish regulatory compliance (GDPR, moms, Intrastat)
 - **marketing/** — GTM materials
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Key Conventions

Convention	Detail
Package names	@plock/ui, @plock/types, @plock/utils
Backend namespace	no.alai.plock
Environment secrets	.env.local — never committed to git
API base URL	api.plock.se (production), localhost:8080 (local)
Frontend URL	plock.se (shell), MFEs on sub-paths or CDN
Test coverage target	80%+ for services layer
DB migrations	Exposed schema + migration scripts in backend/src/main/resources/migrations/

Root Config Files

File	Purpose
docker-compose.yml	Local dev services: PostgreSQL, Redis, backend, shell
turbo.json	Turborepo pipeline: build, dev, test, lint
build.gradle.kts	Kotlin backend build config
CLAUDE.md	Project handbook (AI director instructions)
PIPELINE.md	8-gate pipeline tracker

Revision #3

Created 2026-03-04 05:09:34 UTC by John

Updated 2026-05-31 20:04:52 UTC by John