Machine Tracker API - One-Page Summary

What it is

Backend API for tracking cash movement in gaming machines across multiple business locations. It records daily periods, machine opens, and payouts with strong auditability.

Who it is for

Business owners, managers, and employees who operate gaming machines and need cash accountability.

What it does

- Manage businesses (create, update, enable or disable).
- Manage users and roles with JWT login.
- Open and close daily business periods.
- Record machine entry events with cash in, cash out, drops, and payouts.
- Track winners and payout plans, and record payout transactions.
- Query periods, machine entries, winners, and payouts for reporting workflows.
- Health check endpoint for service status.

How it works

- Client -> REST controllers -> services -> repositories -> MongoDB.
- Spring Security with JWT filter provides authenticated user context.
- DTOs and MapStruct mappers isolate API contracts from domain objects.
- MongoDB GridFS bucket configured for file storage tied to periods (images).

How to run

1. Install Java 21 (project uses Spring Boot and Maven wrapper).
2. Configure MongoDB URI and JWT secret in src/main/resources/application.properties.
3. Run ./mvnw spring-boot:run (server.port defaults to 8080).
4. Local MongoDB provisioning steps: Not found in repo.