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Product Service Microservice

Overview

The Product Service is a cloud-native microservice built as part of an event-driven e-commerce platform. This microservice follows the twelve-factor app methodology and is designed to manage product-related operations within the e-commerce ecosystem.

Key Features

- RESTful API for product management (CRUD operations)
- Event-driven architecture using Kafka for real-time event publishing
- PostgreSQL database for product data persistence
- Circuit breaker patterns for resilience
- Containerized deployment with Docker and Docker Compose
- Environment-specific configuration profiles

Technology Stack

- Java 17 Core programming language
- Spring Boot Application framework
- Spring Data JPA Data access layer
- PostgreSQL Relational database
- Apache Kafka Event streaming platform
- Docker & Docker Compose Containerization and orchestration

• Maven - Build and dependency management

Documentation Index

- Architecture Overview Detailed architecture diagrams and design patterns
- Configuration Guide Application configuration details
- Development Environment Setting up your development environment
- Deployment Guide Deployment instructions and considerations
- · API Documentation API endpoints and usage
- Event Schema Kafka event schemas and examples

Getting Started

See the Development Environment guide for instructions on setting up your development environment and the Deployment Guide for deployment options.

License

This project is proprietary and confidential.