Technical Documentation

Project Overview

This document provides technical specifications and guidelines for the Mock Runner Plugin project.

Key Features

- Runtime method mocking using Java Agent

- Support for Dubbo and Feign interfaces

- Real-time configuration updates

- Kubernetes integration with sidecar pattern

- Comprehensive logging and monitoring

Technical Stack

```
Core Dependencies:
net.bytebuddy:byte-buddy:1.14.11
com.google.code.gson:gson:2.10.1
org.springframework.boot:spring-boot-starter

Testing:
org.testng:testng:7.8.0
org.mockito:mockito-core:5.7.0
```

Architecture

The system follows a modular architecture:

1. Agent Layer: ByteBuddy-based method interception

2. Configuration Layer: JSON-based mock rule management

3. Integration Layer: Framework-specific interceptors

4. Monitoring Layer: Real-time logging and metrics