event-sourcing-payment-system (0.0.1)

Maksim Kostromin

Version 0.0.1, 2018-08-12 17:50:43 UTC

Table of Contents

Travis CI status: [Build Status]

Chapter 1. Introduction

In progress: event-sourcing app using spring-boot + spring-cloud-kafka + kafka-streams

Chapter 2. Prepare kafka

install spring boot cloud CLI

```
brew tap pivotal/tap
brew search spring
brew install springboot

spring install org.springframework.cloud:spring-cloud-cli:2.0.0.RELEASE

spring cloud kafka

# check if zookepper is running:
lsof -i:2181|awk '{print $2}'

# check if kafka is running:
lsof -i:9092|awk '{print $2}'
```

Chapter 3. CQRS and Event Sourcing API (commands, queries, errors)

Commands REST API

```
sealed class Error(override val message: String) : RuntimeException(message)
sealed class Command
sealed class Event
```

Chapter 4. Commands application

Including api project as included build using gradle composit builds approach

```
// file: settings.gradle
rootProject.name = 'commands-app'
enableFeaturePreview 'STABLE_PUBLISHING'

includeBuild('../api') {
  dependencySubstitution {
    substitute module('com.github.daggerok:api') with project(':')
  }
}

// file: gradle/java.gradle
allprojects {
  apply plugin: 'java'

  apply plugin: 'io.franzbecker.gradle-lombok'
  lombok.version = project.lombokVersion

  version = '0.0.1'
  group = 'com.github.daggerok'
  sourceCompatibility = targetCompatibility = "$javaVersion"

  defaultTasks 'clean', 'build'

  dependencies {
    implementation 'com.github.daggerok:api:0.0.1'
    // In java we trust...
    implementation "io.vavr:vavr:$vavrVersion"
  }
}
```

Commands REST API

```
@Configuration
class Rest {

  @Bean
  fun routes() = router {
    ("/").nest {
      contentType(MediaType.APPLICATION_JSON_UTF8)
      GET("/**") {
        val map = mapOf(
            "errors" to listOf(
                Error::class.java.name
            ),
            "commands" to listOf(
                Command::class.java.name
            )
        )
        ok().body(
            Mono.just(map), map.javaClass
        )
      }
    }
  }
}
```

Chapter 5. Links

- GitHub repo
- GitHub pages