TQS Delivery & LegoLiveries

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Teste e Qualidade de Software
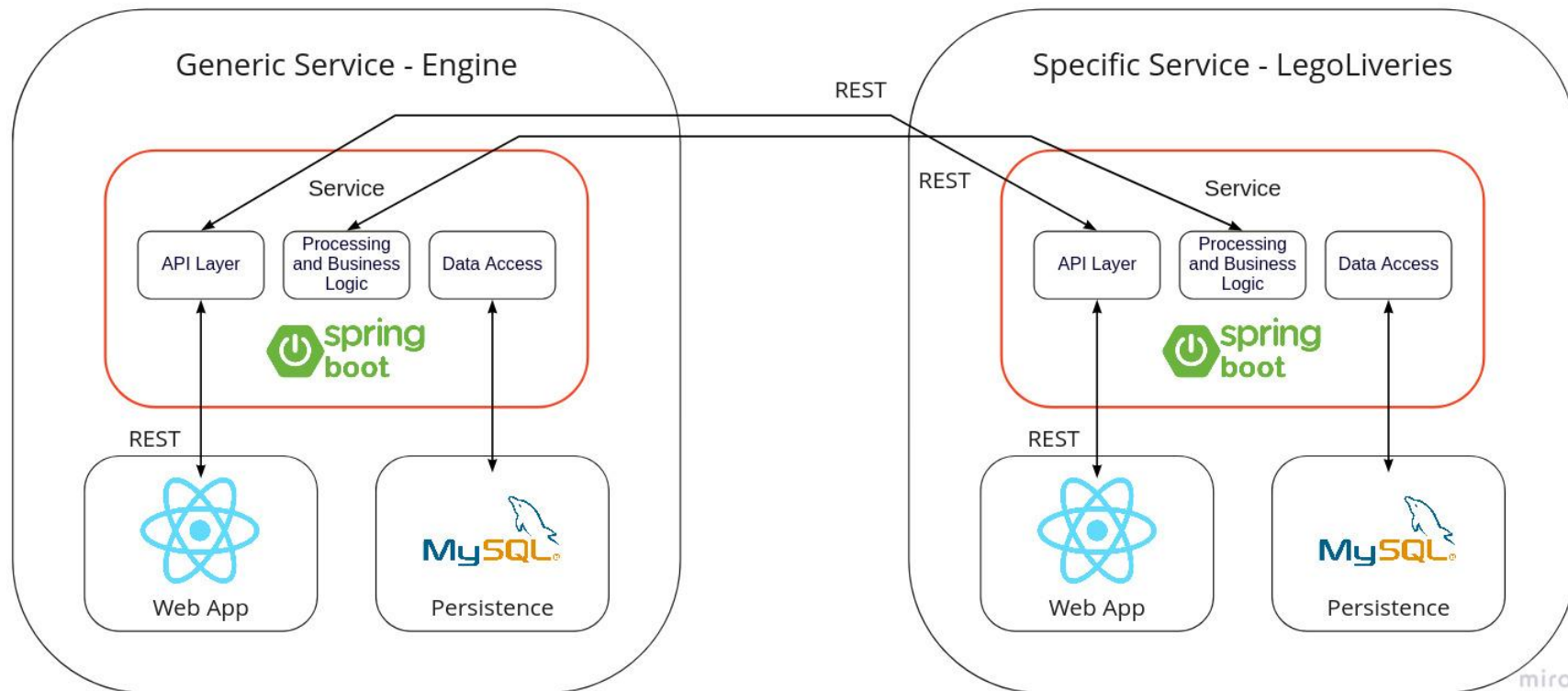DETI, UA
2021/2022

Product Concept

TQS Delivery is a platform that manages both riders and stores, with the possibility of inserting more riders, stores or addresses in the service.

LegoLiveries is a platform for clients to place orders of Lego sets, that joined this service.

Architecture

Coding Style

Import
Do not import full libraries

Exceptions
Capture suitable Exceptions

Tests
Have suitable name for test

Code
Have coherent and simple code

Comments
Create comments for TODO or explanations

DTO
Use DTO pattern instead of raw Model
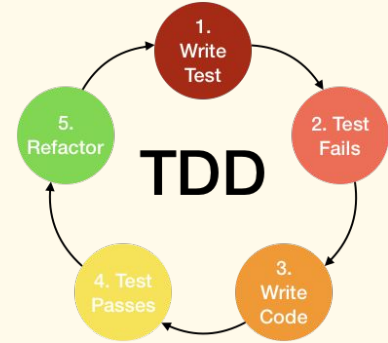
SQA Strategy – Technology For Testing

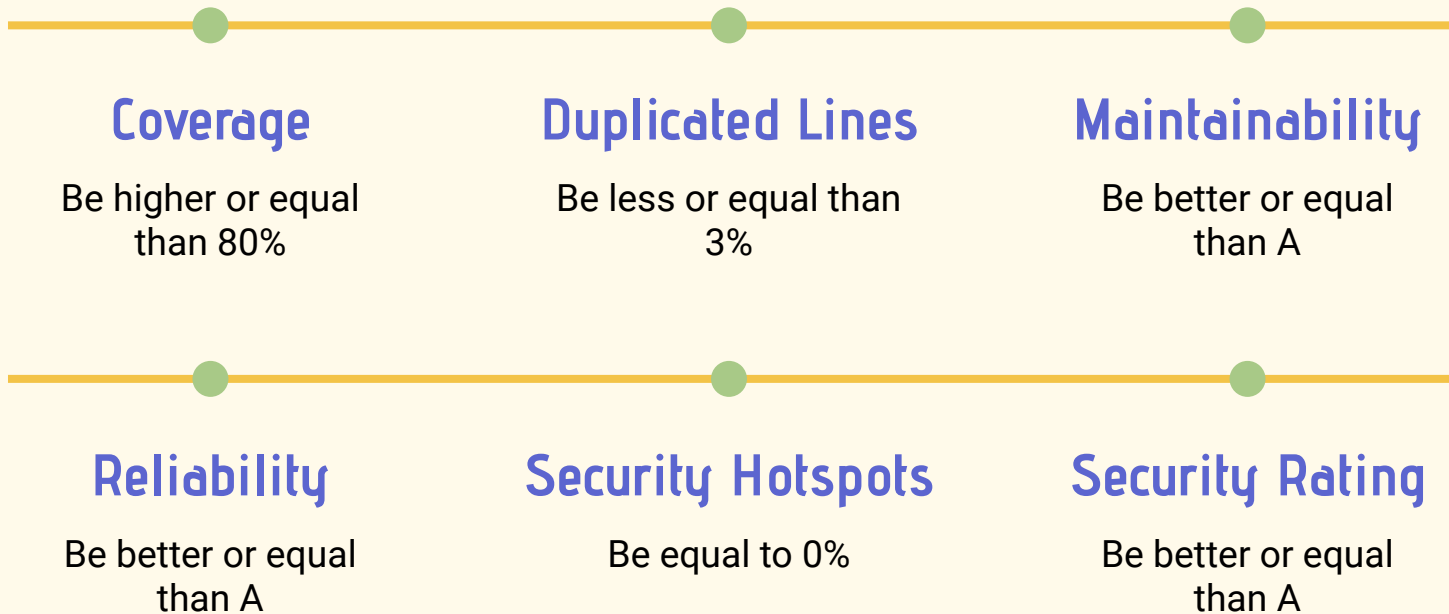**Web Testing**

Selenium
Cucumber

Unit Test

Mvc Testing (MockMvc, RestAssuredMockMvc)
Mockito
JUnit
@DataJpaTest

Strategy

Test Driven Development (TDD)

SQA Strategy - SonarQube Quality Gates

Coverage
Be higher or equal than 80%

Duplicated Lines
Be less or equal than 3%

Maintainability
Be better or equal than A

Reliability
Be better or equal than A

Security Hotspots
Be equal to 0%

Security Rating
Be better or equal than A
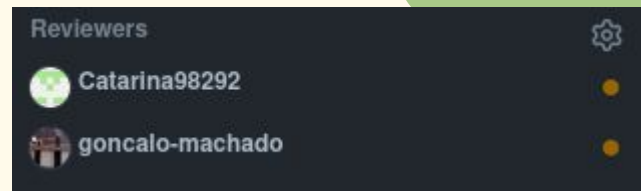
SQA Strategy - Epic

Jira Software Structure of an Epic
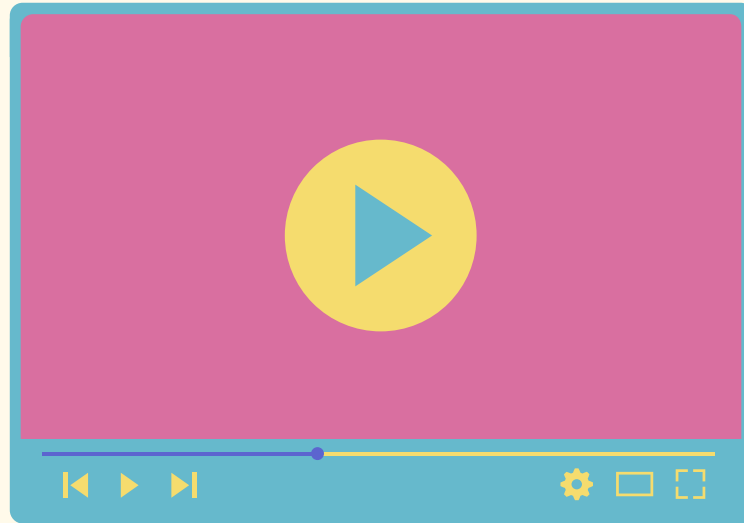
SQA Strategy - Workflow
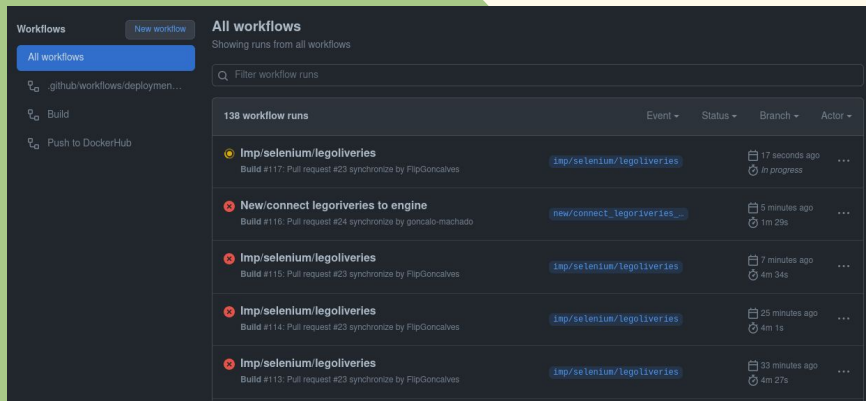
GitHub Actions

When created a Pull Request, the workflow will test the services and determine if it's okay to deploy

Pull Request Reviewers

At least half the team must review the Pull Request to be accepted

Product Demo

CI / CD Pipelines

Continuous Integration

GitHub Actions connected with SonarCloud

Continuous Deployment

GitHub Actions, GitHub workflow and self-hosted runners

Limitations

Project:

- Functional Testing
- Number of team elements

LegoLiveries:

- Design
- Favourites tab
- All orders from a client

Thanks!