TQS: Quality Assurance manual

***Ana Alexandra Antunes [876543]*, *Bruno Bernardes [876543]***

v2023-04-18

[1 Project management 1](#_Toc132723568)

[1.1 Team and roles 1](#_Toc132723569)

[1.2 Agile backlog management and work assignment 1](#_Toc132723570)

[2 Code quality management 2](#_Toc132723571)

[2.1 Guidelines for contributors (coding style) 2](#_Toc132723572)

[2.2 Code quality metrics 2](#_Toc132723573)

[3 Continuous delivery pipeline (CI/CD) 2](#_Toc132723574)

[3.1 Development workflow 2](#_Toc132723575)

[3.2 CI/CD pipeline and tools 2](#_Toc132723576)

[3.3 System observability 2](#_Toc132723577)

[3.4 Artifacts repository [Optional] 2](#_Toc132723578)

[4 Software testing 2](#_Toc132723579)

[4.1 Overall strategy for testing 2](#_Toc132723580)

[4.2 Functional testing/acceptance 3](#_Toc132723581)

[4.3 Unit tests 3](#_Toc132723582)

[4.4 System and integration testing 3](#_Toc132723583)

[4.5 Performance testing [Optional] 3](#_Toc132723584)

[This report should be written for new members coming to the project and needing to learn what are the QA practices defined. Provide concise, but informative content, allowing other software engineers to understand the practices and quickly access the resources.

Tips on the expected content, along the document, are meant to be removed.

You may use English or Portuguese; do not mix.]

# Project management

## Team and roles

[Description of the roles assigned in the team and the responsibilities of each member]

## Agile backlog management and work assignment

[Description of agile practices defined in the project for backlog management (user stories oriented) and work assignment ]

# Code quality management

## Guidelines for contributors (coding style)

[Definition of coding style adopted. → e.g.: [AOS project](https://source.android.com/source/code-style.html)]

## Code quality metrics and dashboards

[Description of practices defined in the project for *static code analysis* and associated resources.]

[Which quality gates were defined? What was the rationale?]

# Continuous delivery pipeline (CI/CD)

## Development workflow

[Clarify the workflow adopted [e.g.. [gitflow](https://www.atlassian.com/git/tutorials/comparing-workflows/gitflow-workflow) workflow, [github flow](https://guides.github.com/introduction/flow/) . How do they map to the user stories?]

[Description of the practices defined in the project for *code review* and associated resources.]

[What is your team “[Definition of done](https://medium.com/@anca_51481/user-story-definition-of-done-dod-in-agile-software-development-and-the-technical-debt-a3abf6821ef2)” for a user story?]

## CI/CD pipeline and tools

[Description of the practices defined in the project for the continuous integration of increments and associated resources. Provide details on the tools setup and config.]

[Description of practices for continuous delivery, likely to be based on *containers*]

## System observability

## Artifacts repository [Optional]

[Description of the practices defined in the project for local management of Maven *artifacts* and associated resources. E.g.: a[rtifactory](https://www.jfrog.com/artifactory/)]

# Software testing

## Overall strategy for testing

[what was the overall test development strategy? E.g.: did you do TDD? Did you choose to use Cucumber and BDD? Did you mix different testing tools, like REST-Assured and Cucumber?...]

[it is not to write here the contents of the tests, but to explain the policies/practices adopted and generate evidence that the test results are being considered in the IC process.]

## Functional testing/acceptance

[Project policy for writing functional tests (closed box, user perspective) and associated resources.]

## Unit tests

[Project policy for writing unit tests (open box, developer perspective) and associated resources.]

## System and integration testing

[Project policy for writing integration tests (open or closed box, developer perspective) and associated resources.]

API testing

## Performance testing [Optional]

[Project policy for writing performance tests and associated resources.]