

HW1: Mid-term assignment report

Ana Alexandra Antunes [876543], v2022-04-07

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<All remarks like this should be removed from the final document!

This a template for the expected **content/structure**. You may use any editing tool to prepare the report (LaTeX included).

Feel free to write in Portuguese or English, but do not mix languages between headings and body...>

1 Introduction

1.1 Overview of the work

This report presents the midterm individual project required for TQS, covering both the software product features and the adopted quality assurance strategy.

<bri>striefly introduce your application: name the product, if applicable; what is its purpose?>

1.2 Current limitations

<explain the known limitations → unimplemented or faulty (but expected) features>

2 Product specification

2.1 Functional scope and supported interactions

<functional description of the application: who (actors) will use the application and for what?</p>
Briefly explain the main usage scenarios. >

2.2 System architecture

<bri><bri>
detail the specific technologies/frameworks that were used>

2.3 API for developers

<what services/resources can a developer obtain from your project? document your API endpoints>

<note: for the homework, you are expected to expose two "groups" of endpoints:

- Problem domain: get the COVID tracking data by region, etc.
- Cache usage statistics: how many hits/misses,... >



3 Quality assurance

3.1 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?...]

3.2 Unit and integration testing

[where did you use unit and integration test? for what? which was the implementation strategy?]

[may add some screenshots/code snippets for clarification]



3.3 Functional testing

[which user-facing test cases did you considered? How were they implemented?] [may add some screenshots/code snippets]

3.4 Code quality analysis

[which tools/workflow did you use to for static code analysis? Show and interpret the results.] [you may add some interesting lessons learned, e.g., some code smell reported by the tool that was difficult to spot and otherwise you wouldn't address it]

3.5 Continuous integration pipeline [optional]

[did you implement a CI pipeline? What was the setup? Illustrate with screenshots, if applicable]

4 References & resources

Project resources

Resource:	URL/location:
Git repository	link to your TQs repo>
Video demo	< short video demonstration of your solution; consider
	including in the Git repository>
QA dashboard (online)	[optional; if you have a quality dashboard available (e.g.:
	sonarcloud), place the URL here]
CI/CD pipeline	[optional; if you have th CI pipeline definition in a server,
	place the URL here]
Deployment ready to use	[optional; if you have the solution deployed in server, place
	the URL here]

Reference materials

<document the key components (e.g.: libraries, API) or key references (e.g.: blog post) that were helpful and certainly would help other students pursuing a similar work>