

TQS: Project kick-off

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1 Introduction

1.1 Overview of the project

This project was developed on the context of the TQS course. The objective was to develop a medium-sized project, comprising:

- Development of a viable software product (functional specification, system architecture and implementation).
- Specification and enforcement of a Software Quality Assurance (SQA) strategy, applied throughout the software engineering process.

2 Team and roles

| Role | Assignee |
|------------------|-----------------|
| Team Coordinator | Tiago Matos |
| Product owner | Tiago Matos |
| QA Engineer | Andreia Portela |
| DevOps master | Vítor Dias |
| Developer | Everyone |

3 Product concept

3.1 Vision statement

The main idea for this project is to create a “last-minute” delivery service, which will be called CityDelivery. This service can be used by companies or users to send their products to a near destination (e.g.: a client’s house). When a delivery is requested, the system will assign an available carrier to pick up the products and deliver them to their destination.

Besides the CityDelivery system, we will also develop an online clothing shop called aDress. This application will rely on the CityDelivery services to send their products to their clients and will work as a proof of concept.

4 Architecture notebook

4.1 Architecture outline

For the architecture of this project, there will be two back-end infrastructures implemented with Spring Boot. One of them will compose the CityDelivery system, which will not only provide the web application but also provide an API to be used by other systems. This API will then be called by the second infrastructure that composes the aDress system and its web application. Both mentioned systems will contain a layer of persistence implemented with MySQL and a front-end layer that will be implemented with HTML, CSS and JS.

