

# Project Task: QA Challenge

## Abstract

The success of Celonis is its browser-based web application. A key aspect in delivering successful customer projects in an b2b-environment is excellent quality and reliability of the software. The QA team's responsibility is to validate and ensure these quality standards. In the Scenarios below you can use our open applicants' cloud for validating and testing the software.

## System access

The access to the Applicants Cloud will be provided to you in a separate email invitation.

## Challenge

Create a test environment for our trial cloud that allows you to validate if we can release a new version to our trial users or if we should postpone a release. Prepare an analysis in form of a presentation (PowerPoint presentation or Google Slides) but you should be ready to show the actual test cases and run the automation tests. Your tasks for this challenge are:

### 1. Component test on the Process Explorer.

The Process Explorer visualizes the real process of your company. The general functionality includes the abstraction of the process complexity to a structured and easy to use an initial view. The ability to dive into the single details, which includes increasing the coverage of the edges and variants shown on the graph. Finally, the Process Graph can show Business KPIs on the nodes and edges.

Your 1st task is to prepare a small manually designed test suite with few manual test cases presenting the proper way to test the component. This can be done in different ways. For example, you could prepare manual test cases that have a standard test structure (Test Case title, Description, Preconditions, Steps, Expected results etc.) or you could implement a BDD style approach. You can use Pizza Demo to understand and explore the Process Explorer component. Document any bugs or findings along the way.

### 2. Automated health checks.

The trial cloud is marketing and sales instrument which is heavily used by all our sales people. New possible customers are given access and can validate for themselves how to utilize Process Mining for their companies.

Your 2nd and final task is to implement an automated test suite which consists of some basic health checks in order to validate that the system is up and running and catches any potential bugs introduced by changes to the system. For example, you can create a Selenium or Cypress test suite consisting of automated tests that check the login functionality, validates presence and availability of all 3 Demo analyses: Order to cash, Purchase to pay and service now ticketing by ensuring that the analyses load successfully and display the content correctly when opened.

Prepare the actual tests in a way in which you can show the results, run them from a terminal, as well as a plan on how to orchestrate it continuously.