University of St.Gallen

School of Computer Science

Event-driven and Process-oriented Architectures, FS2024
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Exercise 5: Zeebe.io
Deadline: 21.04.2023; 23:59 CEST

Project Abstract

In the fifth week's exercise on Event-driven and Process-oriented Architectures we will have a look at using Camunda Cloud (aka Zeebe) in small hands-on projects.

(1) **Labs**

In the practical part of the lecture we ask you to work on the following labs to get some hands-on experience with Camunda Cloud:

- Lab10 – Camunda Cloud Get Started[1]: This lab shows a simple process embedded within a Spring Boot application to be executed on Camunda Cloud. Check out the README of the project on GitHub for details regarding the usage of and connection to Camunda Cloud, either as a locally deployed version in Docker or as hosted version.

- Lab11a – Flowing Retail – Zeebe-Kafka Version[2]: This project shows a version of the Flowing Retail project using a process executed on Camunda Cloud within the *Order*[3] context. Here you can also find instructions on either using a locally deployed version of Camunda Cloud or on how to connect to a hosted version in the README file of the GitHub project.

- Lab11b – Flowing Retail – Zeebe Version[4]. In addition, the Docker compose file `docker-compose-java-order-zeebe.yml` has a run configuration for the flowing retail project using only Zeebe and Jobworkers without Kafka. Check the sub-project's retail for more details.

(2) **Suggestions for Software Project**

For your software project we ask you to consider and discuss the option of using Camunda 8 (Zeebe.io) instead of Camunda 7 for implementing the workflow-related parts of your own project. You are free to choose either of them. Based on your insights from the labs in part 1 and the guest lecture, report your decisions in the hand-in for part 1 of the lecture (e.g., in an ADR).

Software Project Expectations

The labs in Part 1 of this sheet are meant to be done during class and are **not graded**. In Part 2 we expect you to prepare a report on the project-related implementations that you have done in your group.

Hand-in Instructions

The report and implementation for the project-related Part 2 will **be graded** as part of the software application for your group to be handed in for the first part of the lecture until after the semester break. The detailed instructions for the hand-in of the first project until the deadline indicated at the top of this sheet are provided with Exercise 6. Each group member **must explicitly indicate** which part she/he/they has/have been working on. Please approach the tutors for individual feedback regarding your submission for this assignment.

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[1] https://github.com/scs-edpo/lab10-camunda-cloud-get-started
[2] https://github.com/scs-edpo/lab04-flowing-retail/tree/master/kafka/java
[3] https://github.com/scs-edpo/lab04-flowing-retail/tree/master/kafka/java/order-zeebe
[4] https://github.com/scs-edpo/lab04-flowing-retail/tree/master/zeebe