University of St.Gallen - Exercise Submission

Course Information

- **Course:** Event-driven and Process-oriented Architectures FS2024
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Deadline

- **Submission Date:** 19.03.2024; 23:59 CET
- **Work distribution**

Exercise 03: Process Orchestration with Camunda

Implementation of a process solution using Spring Boot and Camunda

Decision

We decided to extend the existing Flowing-Retail-Kafka-Camunda-Orchestrated project with a new service `VGR-Camunda` to implement an additional BPMN-based Process that extends the Order-Fulfillment process.

Rationale

As we aim to include the Smart-Factory highlevel dataset to facility stream processing, we start by implementing a Microservice that simulates the VGR (Vacuum-Gripper-Robot) in the Smart-Factory.

Design

Each service is configured to run its own instance of the Camunda BPMN engine.

Additional Considerations

The VGR process can be extended once we have decided on the states and actions of the VGR in the Smart-Factory Flow. To make use of other BPMN elemnts, we have created a Camunda form for the Checkout service.

Code

Release)

The README.md file provides detailed description of VGR-Flow implementation.