

# THE FIRST PROCESS SERVICE

BPM Lab #2

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## Today

Human tasks, gateways, signal events and forms

## 3 April

Presentation: The latest business automation trends

At the lab: Camunda 8 SaaS, DMN, custom services, emails, subprocesses, timer events, error events, and data object collections

## 15 May - 22 May

Project consultations

# HOMEWORK

Deadline: 13 March 2025 (1 week)

Assignment:

- Individual task on your or university's PC
- Submit the homework project for evaluation into the MUNI system (Homework vault/Odevzdávárna **HW1\_camunda**)

# HOMEWORK IN 3 STEPS

## DOMAIN FORM

Create Order form

## PROCESS MODEL

Create DeliveryProcess model with a single human task to do a manual delivery of the order

## AUTOMATION

Use gateway and signal event to automate delivery

# Instructions

The following instructions will help you complete your homework.



# Step #1: Order Form

- ▶ Create the form and **save it** (e.g. into a dedicated folder)
- ▶ Add a Text view with text Order (you can use Markdown, e.g. **## Order** for formatting)
- ▶ Add these fields to the form:
  - **Count** of type **Number** with key **count**
  - **Item** of type **Text field** with key **item**
  - **Price** of type **Number** with key **price**
- ▶ You can also add validation, e.g. Count and Price cannot be negative

## Order

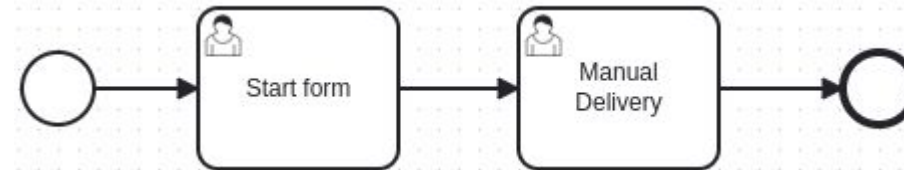
Count

Item

Price

## Step #2: Create DeliveryProcess

- ▶ Create a process definition called **DeliveryProcess**



- ▶ **Configure Start Form** user task with the following **outputs**<sup>1</sup>:

**Outputs** + 3

order.count

Process variable name

order.count

Variable assignment value *fx*

= count

> order.item

> order.price

- ▶ **Configure Manual Delivery** user task with the following **inputs**<sup>1</sup>:

**Inputs** + 3

count

Local variable name

count

Variable assignment value *fx*

= order.count

> item

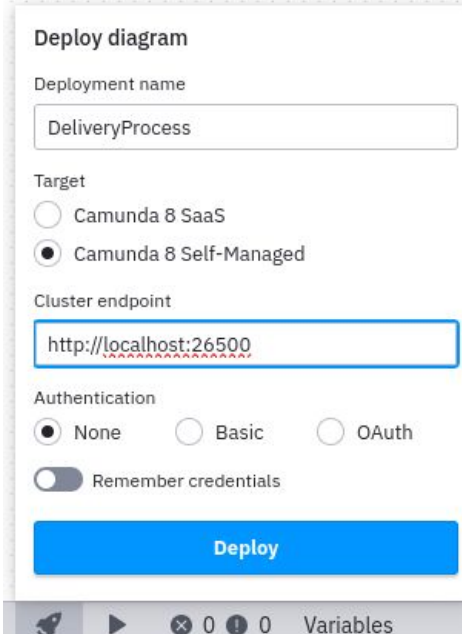
> price

- ▶ **Save the process definition**

<sup>1</sup>Remaining variables **item** and **price** are defined analogously

## Step #3: Deploy the project

- ▶ Using Modeler, deploy **Order Form** and **DeliveryProcess**
- ▶ Try to run the process instance and complete the **Manual Delivery** user task



The screenshot shows the 'Deploy diagram' dialog box in Camunda Modeler. It contains the following fields and options:

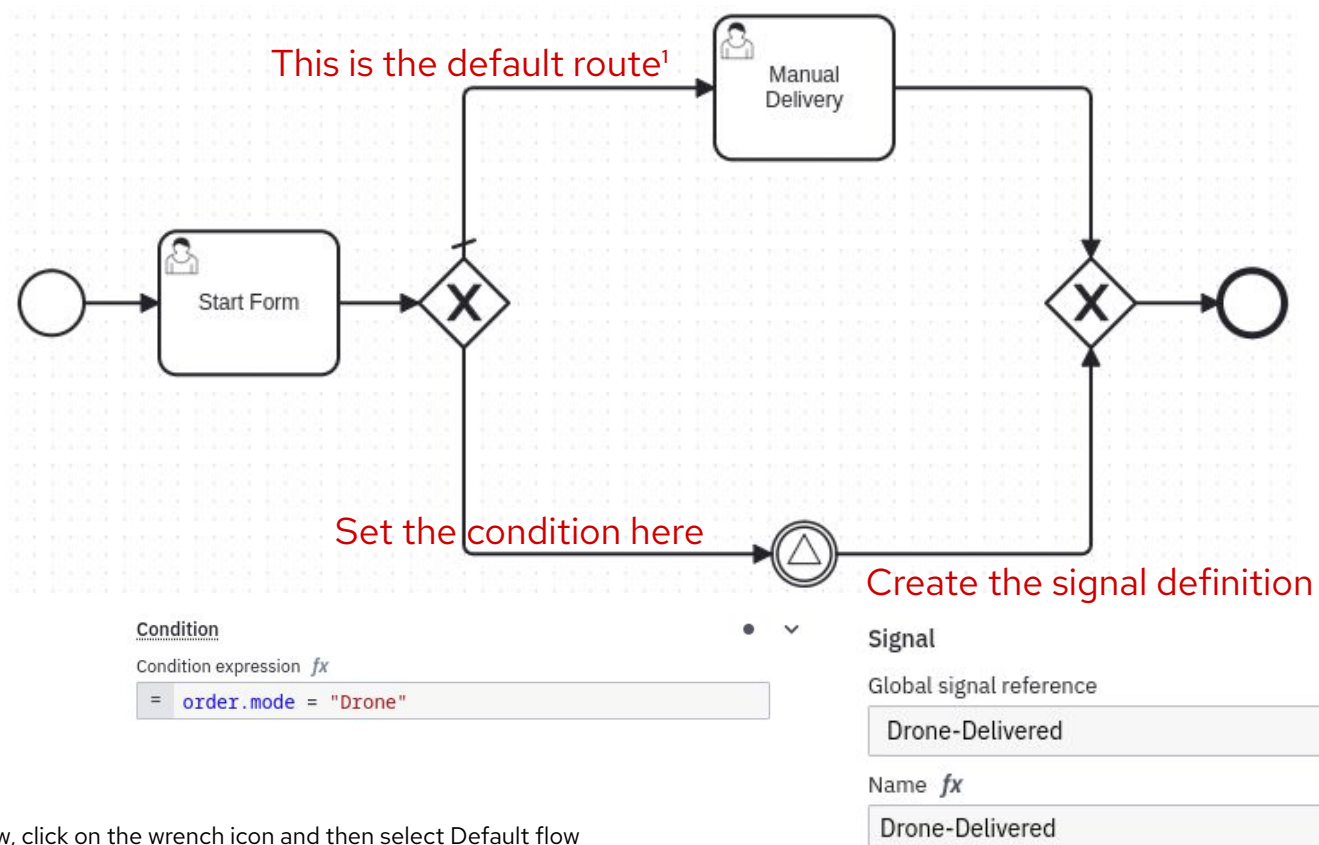
- Deployment name:** A text input field containing 'DeliveryProcess'.
- Target:** Two radio button options: 'Camunda 8 SaaS' (unselected) and 'Camunda 8 Self-Managed' (selected).
- Cluster endpoint:** A text input field containing 'http://localhost:26500'.
- Authentication:** Three radio button options: 'None' (selected), 'Basic' (unselected), and 'OAuth' (unselected).
- Remember credentials:** A toggle switch that is currently turned off.
- Deploy:** A large blue button at the bottom of the dialog.

At the bottom of the dialog, there is a toolbar with icons for a home button, a play button, a close button, and two status indicators (0 and 0), followed by the text 'Variables'.



## Step #4: Automate Delivery

- ▶ Add a field **Mode** of type **Select** (2 static options: **Drone**, **Manual**) with key **mode** to the **Order Form**, this will represent the mode of delivery, and **Save it**
- ▶ Extend the process definition like in the picture and **Save it**



<sup>1</sup>Click on the sequence flow, click on the wrench icon and then select Default flow

## Step #5: Try running it

- ▶ Redeploy form and process definition
- ▶ Run the process with both "Manual" and "Drone" mode
- ▶ With the "Manual" mode specified, the **Manual Delivery** human task should be created
- ▶ With the "Drone" mode specified, the process instance should wait for a signal which you can send using another simple process definition (SignalTrigger):



## Step #6: Export Project

- ▶ Put all assets you created (Form, DeliveryProcess definition, SignalTrigger definition) in one folder and make an archive from them
  
- ▶ Upload the archive to the Homework Vault/Odevzdávárna **HW1\_camunda**

# Thank you

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