

THE FIRST PROCESS SERVICE

BPM Lab #2

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Today

Human tasks, gateways, signal events, data objects, and generating forms.

March/April

Presentation: The latest business automation trends

At the lab: Custom services, emails, custom forms, subprocesses, timer events, error events, and data object collections

April

Automating decisions, DMN, test scenarios, Kogito services

HOMEWORK

Deadline: 17 March 2022 (3 weeks)

EXTENDED TO 24 March 2022

Assessment:

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

HOMEWORK IN 3 STEPS

DOMAIN DATA MODEL

Create Order data object

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: Data Object

- ▶ Create the following data object and **save it**

Spaces » MySpace » Order Delivery » master » Order

> Order.java - Data Objects

Model Overview Source

Order

+ add field

Identifier	Label	Type	
count	Count	Integer	Delete
item	Item	String	Delete
price	Price	Double	Delete

Step #2: Create DeliveryProcess

- ▶ Create a process definition called **DeliveryProcess** (in the same package as the **Order** data object) with one process variable **order** of type **Order**, which is the data object from the previous step



- ▶ **Assign Manual Delivery** human task to **wbadmin** and set its **Task Name** together with the following assignments:

Manual Delivery Data I/O

Data Inputs and Assignments + Add

Name	Data Type	Source	
order	Order [com.myspac]	order	

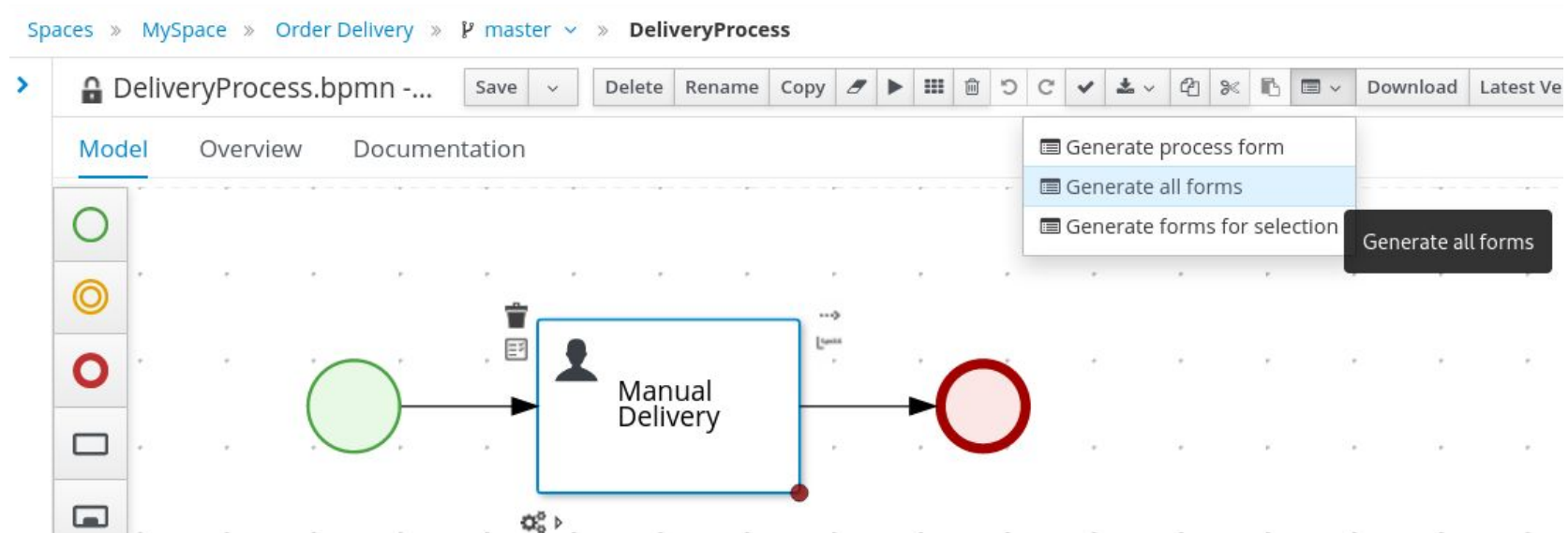
Data Outputs and Assignments + Add

Cancel Save

- ▶ **Save the process definition**

Step #3: Generate all forms

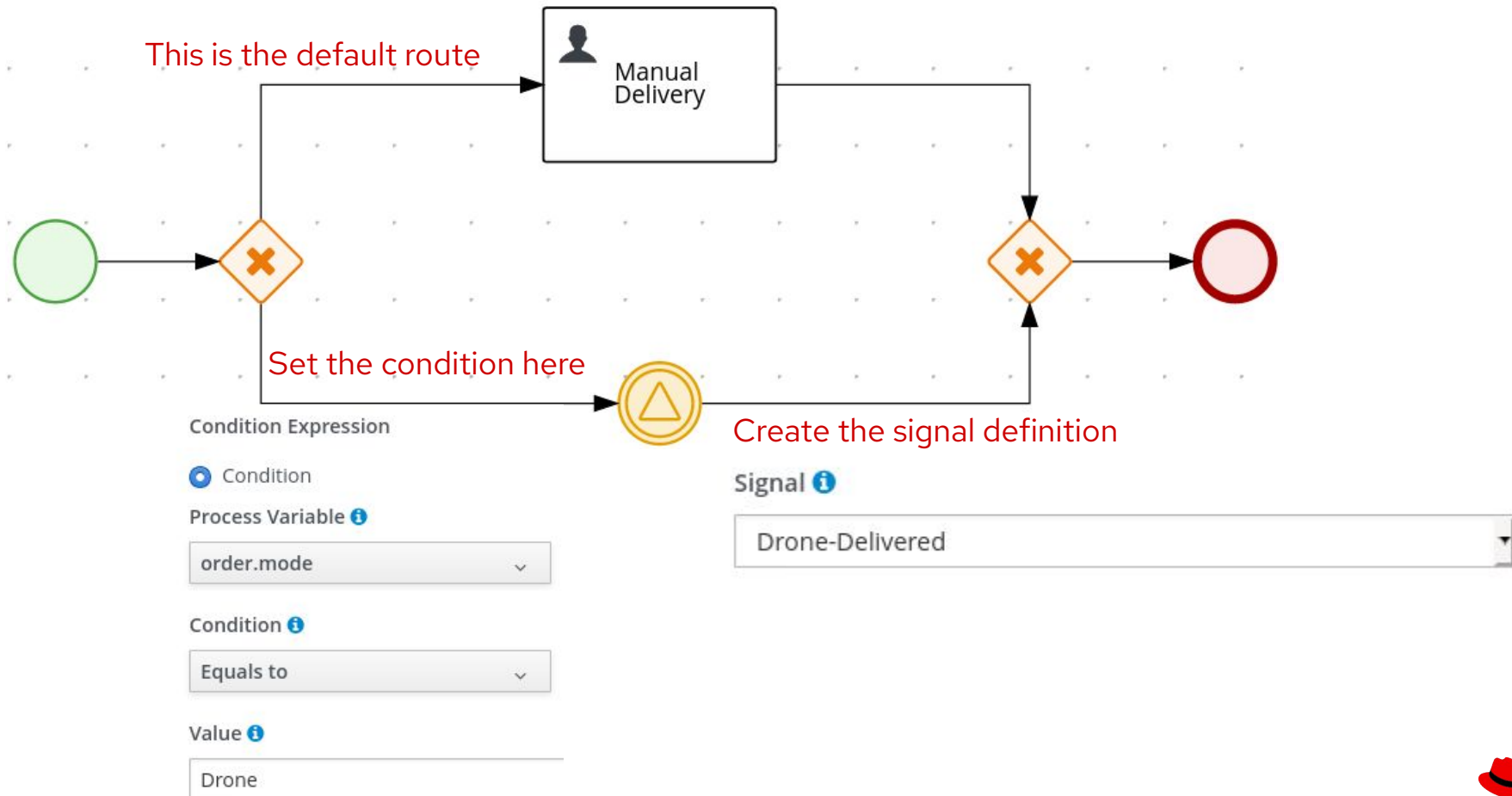
- ▶ Generate all forms



- ▶ Deploy the project, try to run the process instance and complete the human task

Step #4: Automate Delivery

- ▶ Add a field **mode** of type **String** to the Order data object, this will represent the mode of delivery, and **Save it**
- ▶ Extend the process definition like in the picture and **Save it**



Step #5: Try running it

- ▶ Delete Order form and regenerate them so they contain the newly added **mode** field
- ▶ 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 from the **Manage - Process Instances** perspective
- ▶ If the **mode** variable is not filled properly (Manual Delivery branch is taken even if "Drone" mode is selected), try restarting the Business Central and redeploying the project once again or raise a version of the project in project settings and deploy

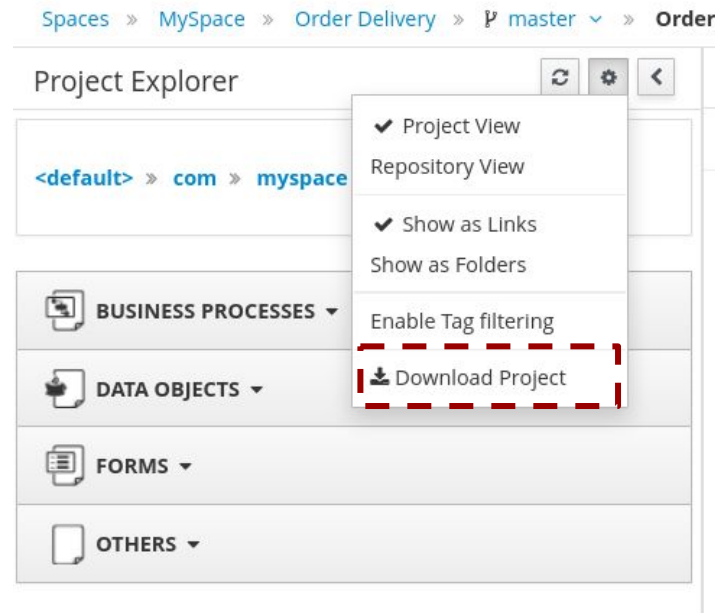
Step #6: Export Project

- ▶ Open whichever asset you want and expand the menu by clicking on the arrow



- ▶ Download the project ZIP file by clicking on the **Download Project** button

- ▶ Export the project and upload the whole project.zip archive to the Homework Vault/Odevzdávárna **jbpm_hw**



Thank you

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