

Exercise to create a BPMN + BPSim file with the Eclipse Software

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Objective:

Create a code in the Eclipse software similar to the given file named “Pizza” (who represents two kinds of delivery: one by bike and another by car) with the ecore files each we already have in the Eclipse software there we are using.

How to accomplish this objective:

To have a clearer understanding of how to accomplish the objective, the explanation will be done in numbered steps:

1. First of all, we need to add BPMN Designer in our Eclipse software. For this, we can right click in de “Model Explorer” or left click in “File” and click on Import -> Projects from Git (GitHub website) -> Clone URI -> We can copy the follow [URI](#) and past in the URI location -> after that we can clink in next twice -> Select a Directory and click in next -> Select all projects and finish (in my case I already done these steps, so I already have all projects in my software).

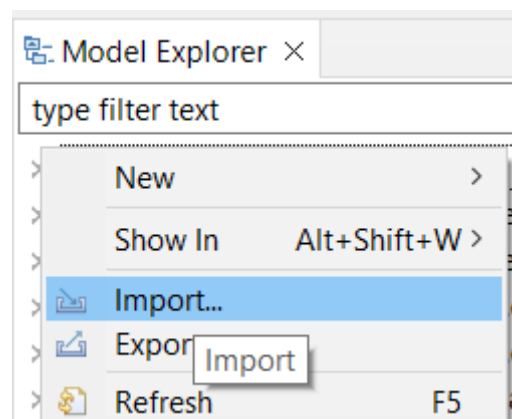
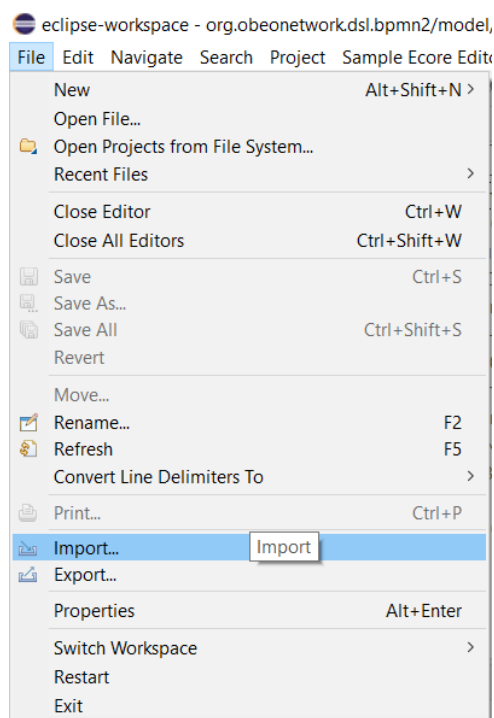


Figure 1 and 2 - how to import projects to your Eclipse

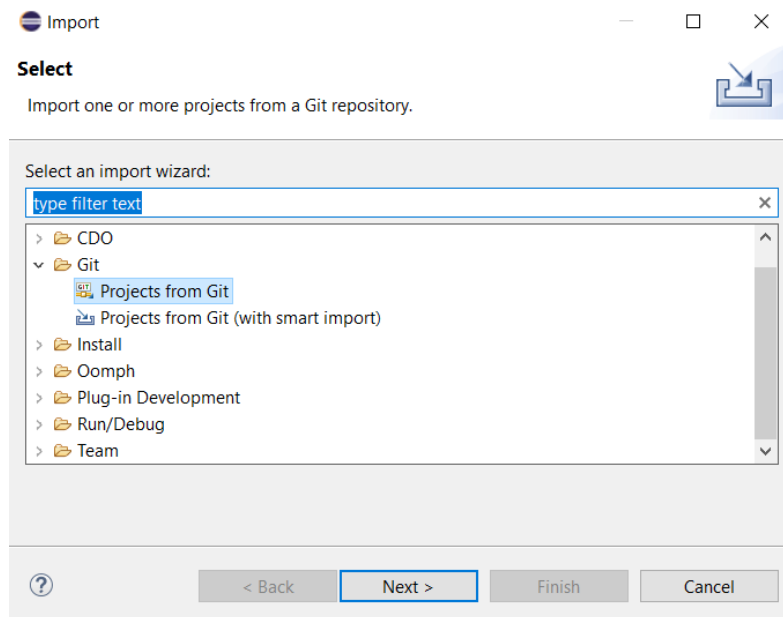


Figure 3 - importing projects from GitHub

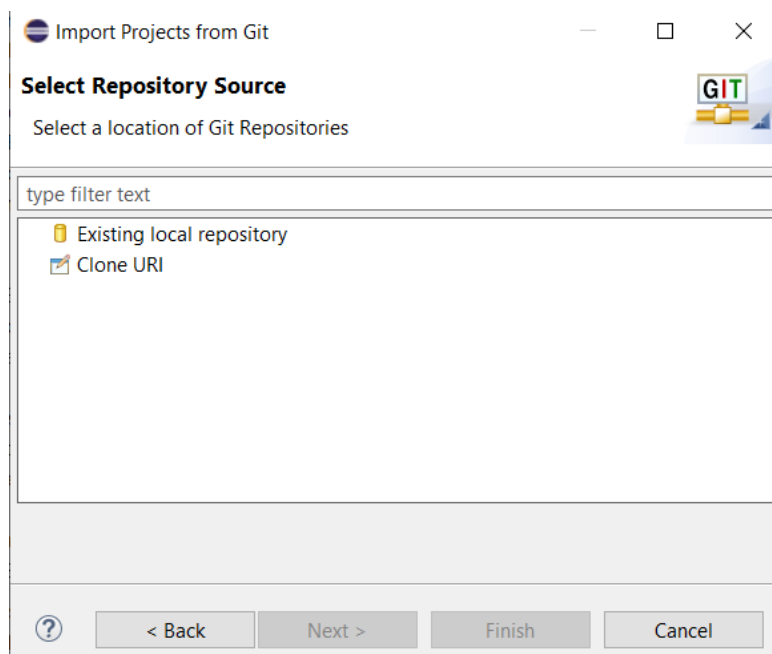


Figure 4 - importing projects from a GitHub URI

Import Projects from Git

Source Git Repository

Enter the location of the source repository.

Location

URI:

Host:

Repository path:

Connection

Protocol:

Port:

Authentication

User:

Password:

☐ Store in Secure Store

Figure 5 - pasting the GitHub URI

Import Projects from Git

Local Destination

Configure the local storage location for BPMN-Designer.

Destination

Directory:

Initial branch:

☐ Clone submodules

Configuration

Remote name:

Figure 6 - choosing the directory

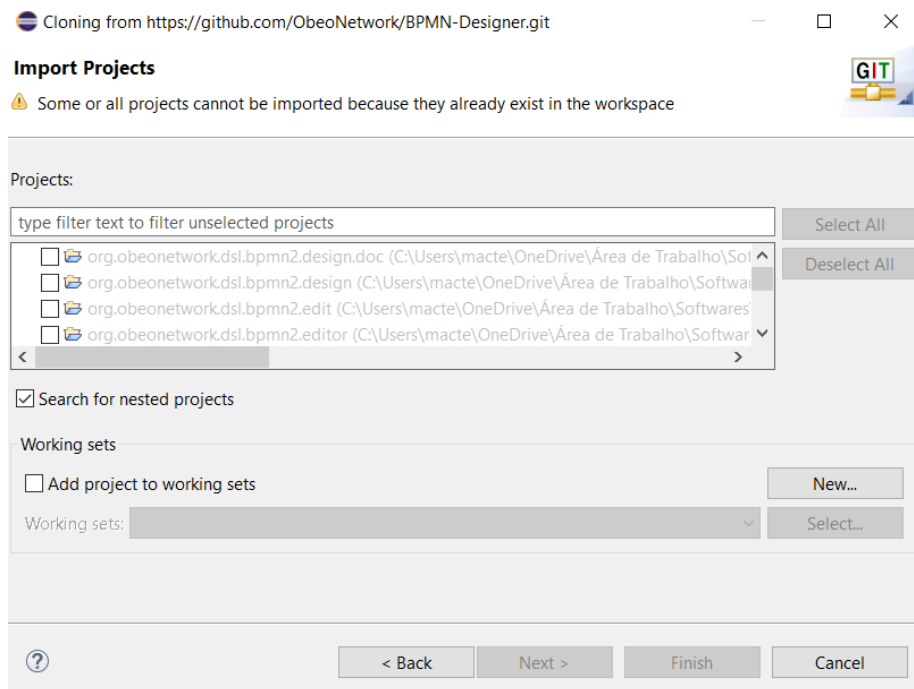


Figure 7 - selecting all projects and finish

- After those steps, you will have all projects to use the BPMN Designer, as we can see in the figure below.

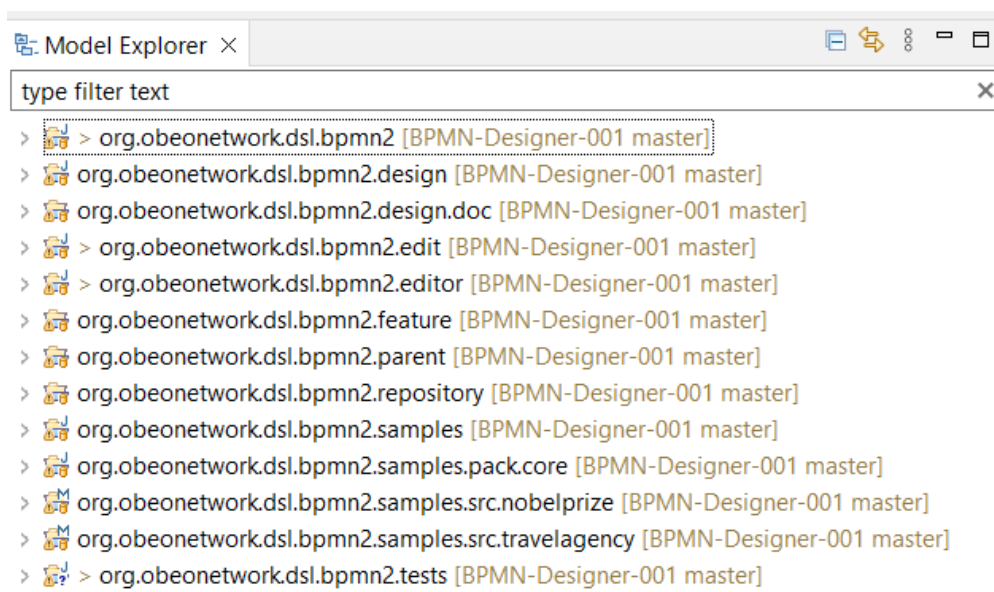


Figure 8 - all projects from BPMN Designer

- Now, we need to add the BPSim ecore file in the BPMN Designer. To do this, we can expand the first project (org.obeonetwork.dsl.bpmn2), expand the model folder, drag and drop the bpsim2.ecore file in this folder.

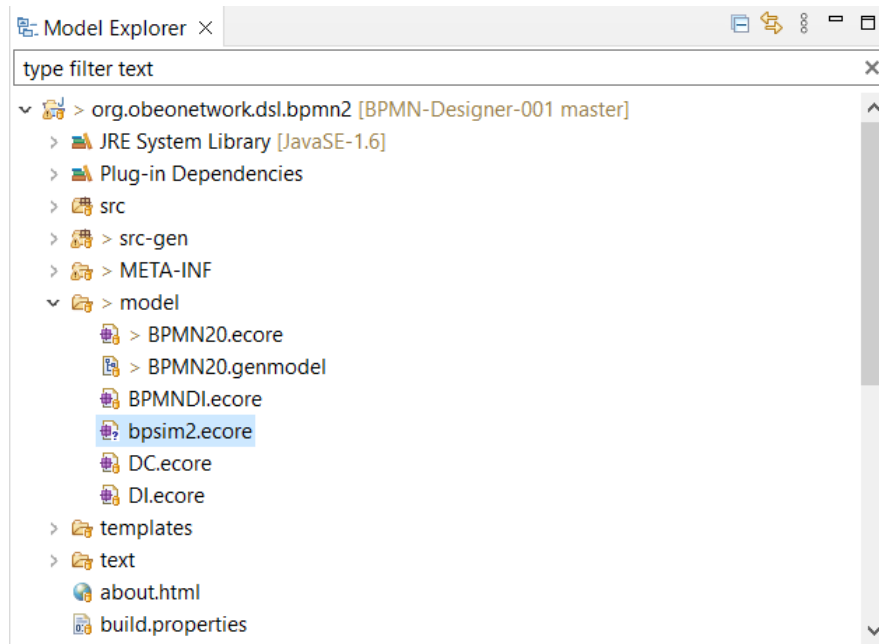


Figure 9 - bpsim2.ecore in the BPMN Designer

4. Select the BPMN20.ecore file -> right click -> Load Resource -> Browse Workspace -> select the bpsim2.ecore file -> select "OK" twice

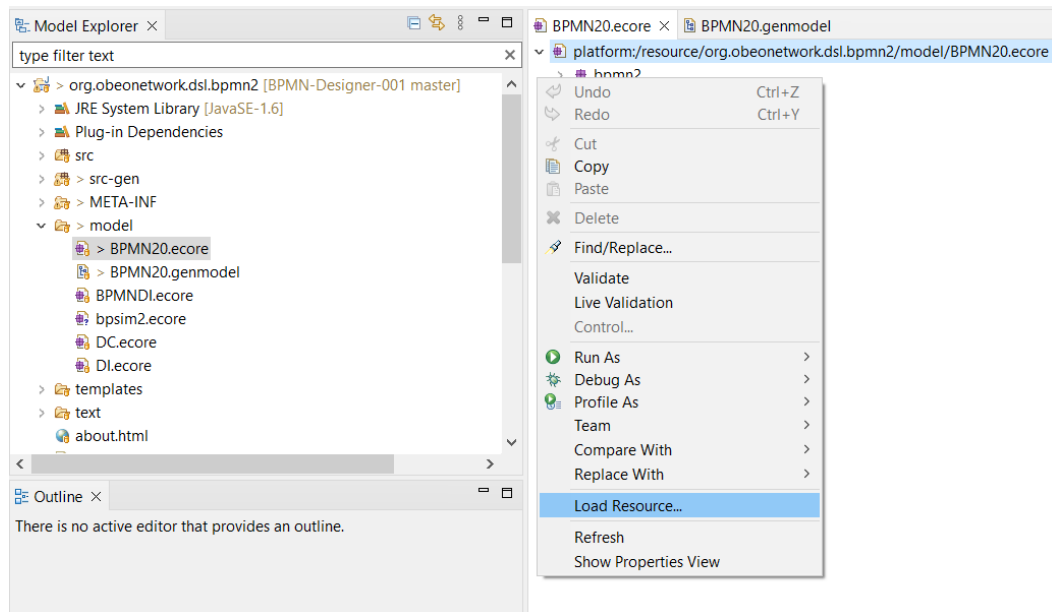


Figure 10 - selecting "Load Resource"

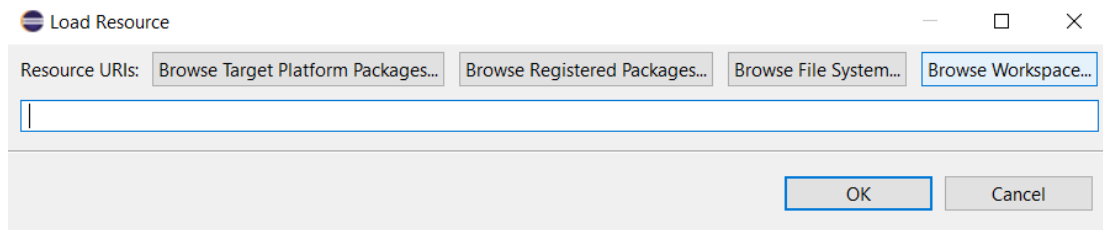


Figure 11 - selecting "Browse Workspace"

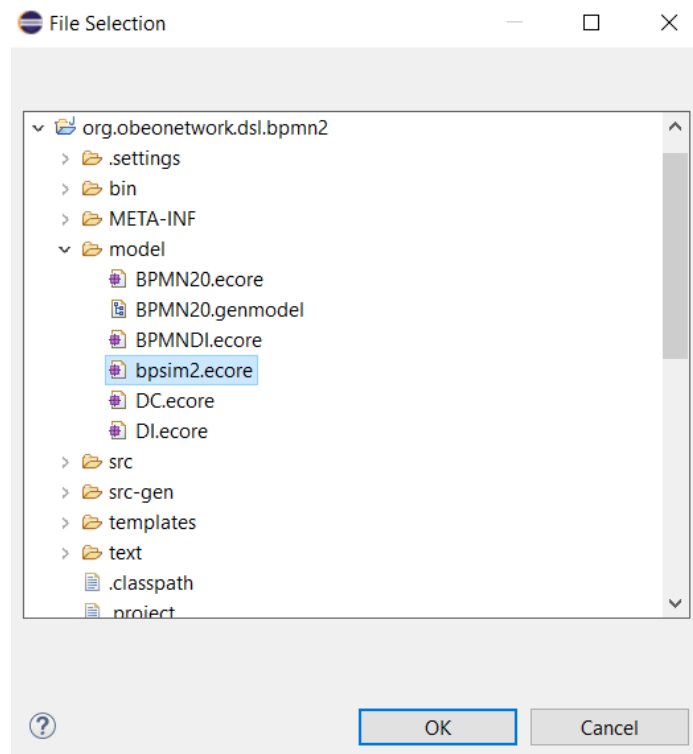


Figure 12 - selecting the bpsim2.ecore file

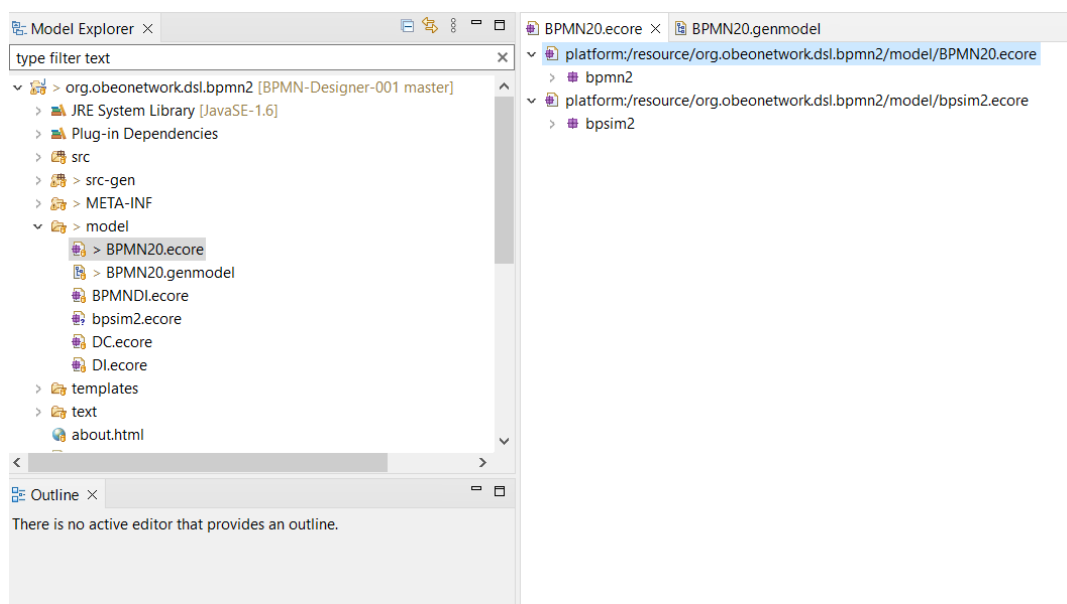


Figure 13 - your BPMN20.ecore after add the bpsim2.ecore file

5. Expand bpmn2 -> Find the EClass called "Extension" -> right click -> New Child -> EReference -> your new EReference have to looks like the figure 16

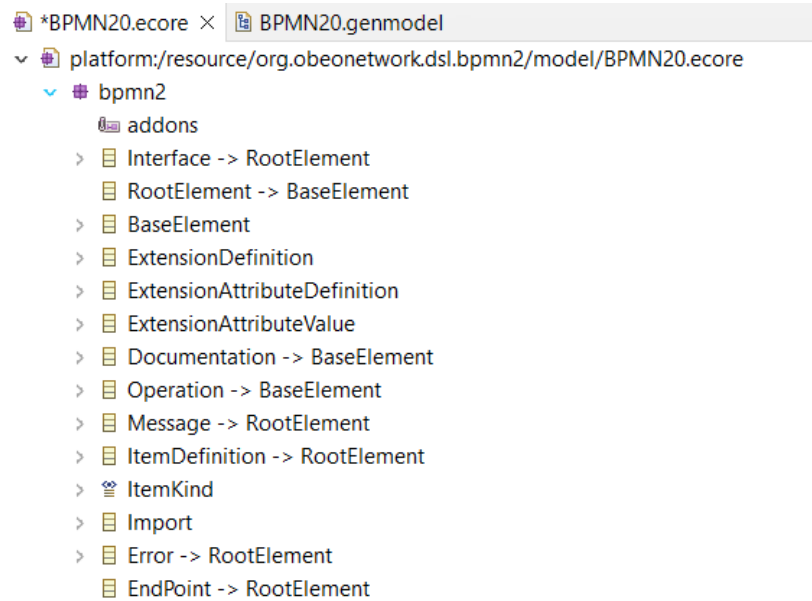


Figure 14 - bpmn2 after being expended

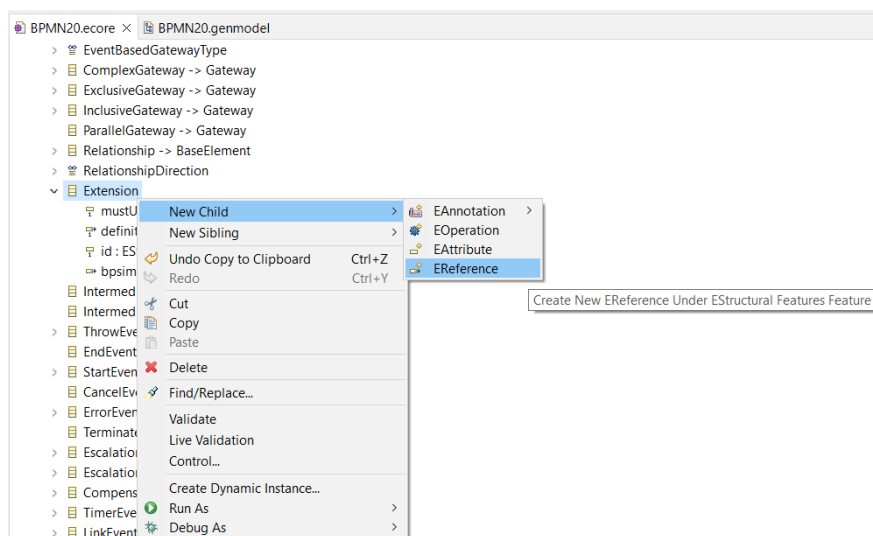
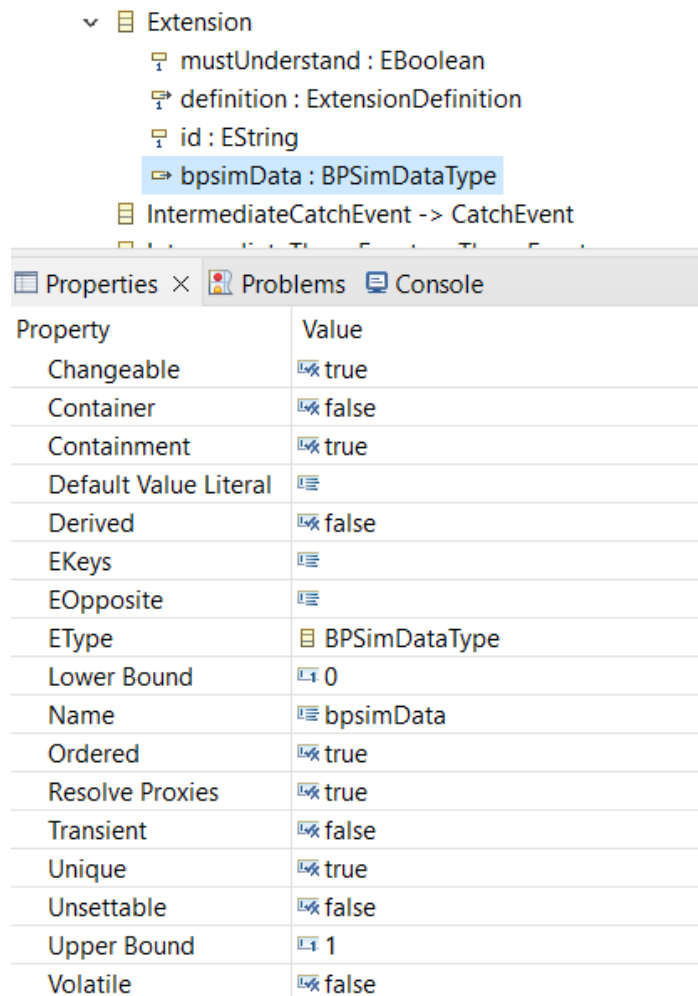


Figure 15 - creating an EReference into Extension EClass



Property	Value
Changeable	true
Container	false
Containment	true
Default Value Literal	
Derived	false
EKeys	
EOpposite	
EType	BPSimDataType
Lower Bound	0
Name	bpsimData
Ordered	true
Resolve Proxies	true
Transient	false
Unique	true
Unsettable	false
Upper Bound	1
Volatile	false

Figure 16 - properties of the new EReference

- Find the EClass called "Relationship" -> right click -> New Child -> EReference -> your new EReference has to look like the figure 18 -> right click in bpmn -> Validate.

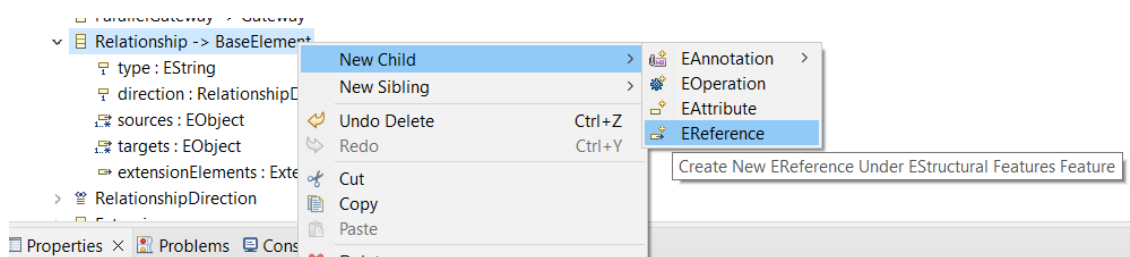


Figure 17 - creating an EReference into Extension EClass

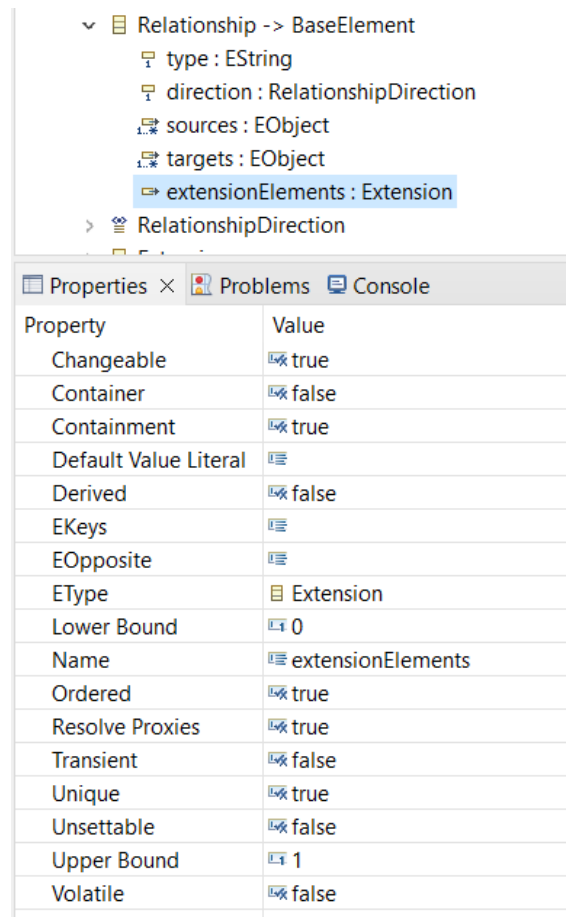


Figure 18 - properties of the new EReference

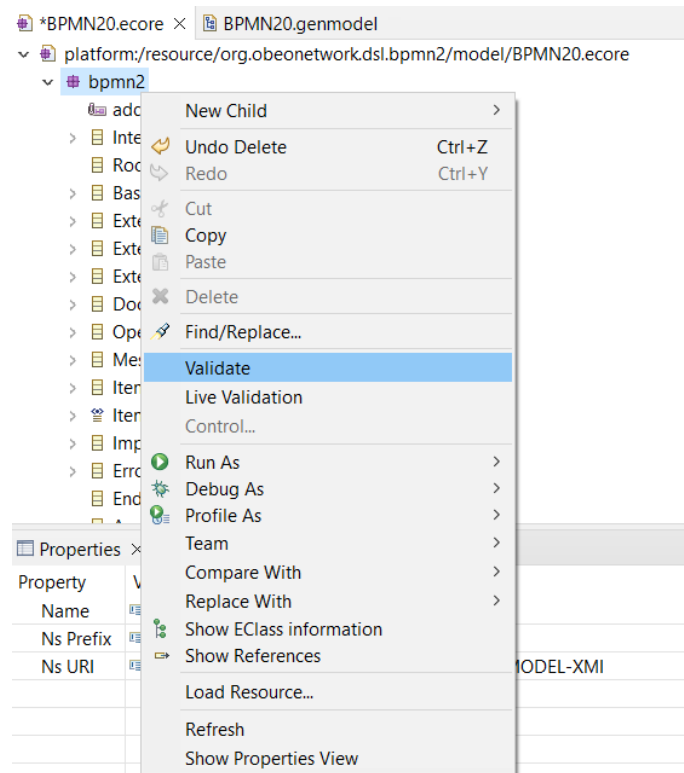


Figure 19 - validating the changes

- After validate all changes in the ecore files without any problem, you can open the BPMN20.genmodel file -> expand Bpmn2 -> expand the other Bpmn2 -> expand Extension -> click in bpsimData -> your properties has to look like the figure 20.

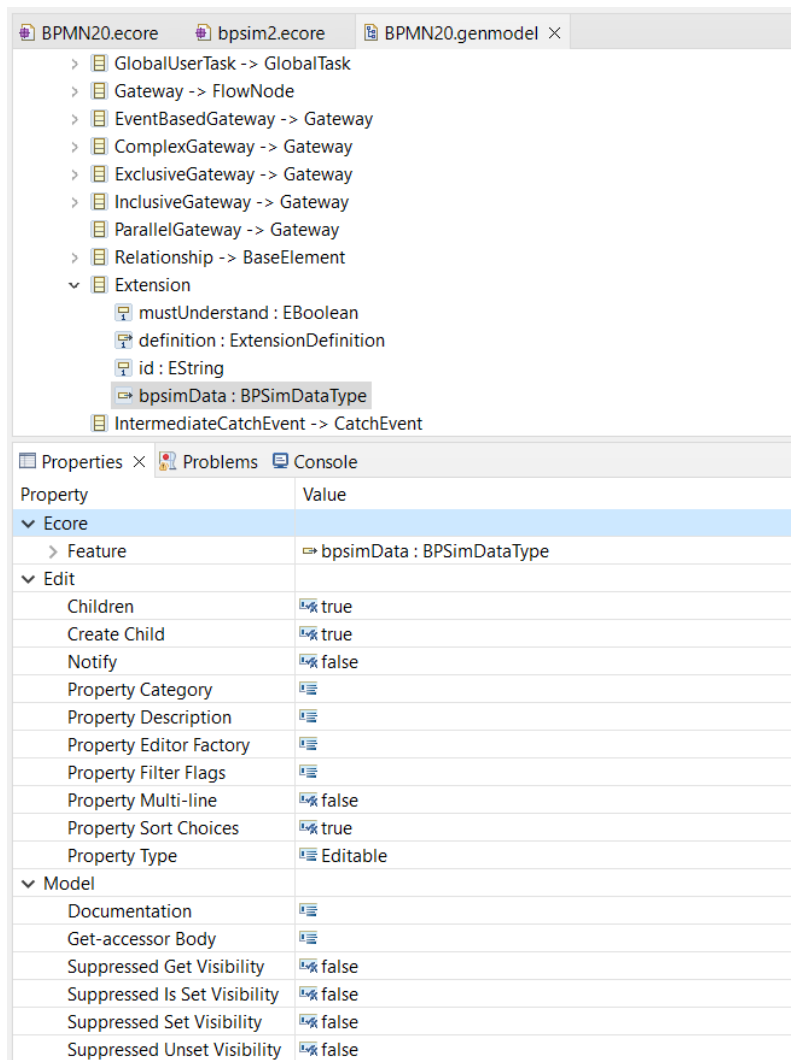


Figure 20 - properties of bpsimData in "Extension" in genmodel file

- After that you can ctrl+s to save the changes in the genmodel file -> right click in Bpmn2 -> Generate All -> after those steps, you will be capable to use the BPMN Designer with the BPSim functions.

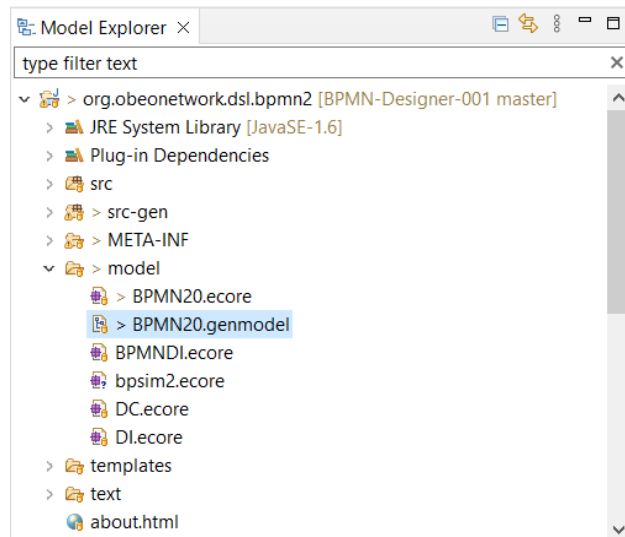


Figure 21 - opening the BPMN.genmodel file

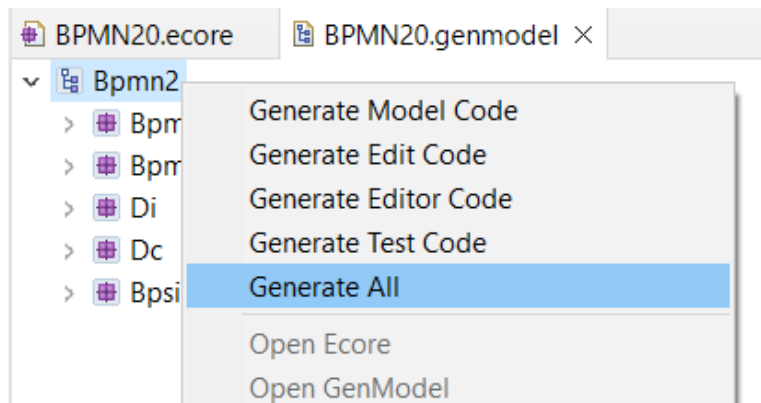


Figure 22 - selecting Generate All

9. Now, we can create a new "run" to finally start to create our file. To create this run, you can right click in "/org.oboonetwork.dsl.bpmn2.editor" -> Run As -> Eclipse Application, or, left click in "Run" -> Run configurations -> double click in "Eclipse Application" to create an new run -> Run (with this second way to create a run, we can see and change the Java version that we will be using, in this case, I used the JavaSE-17 (jre), but this version can be changed in "Execution environment").

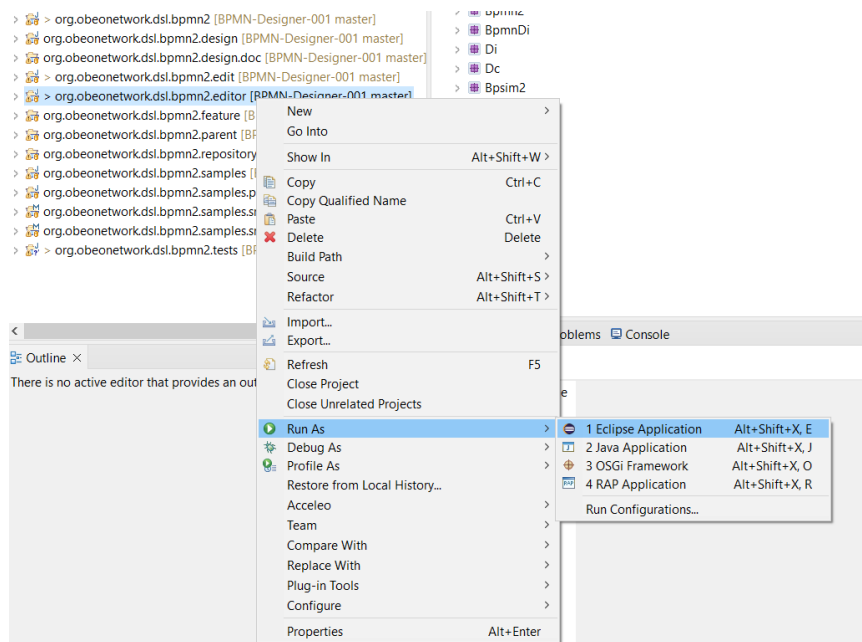


Figure 23 - first way to create an Eclipse Application run

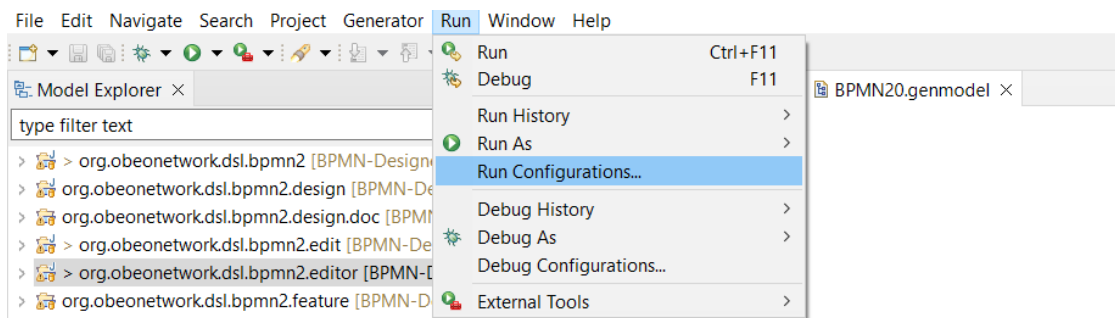


Figure 24 - second way to create a new run

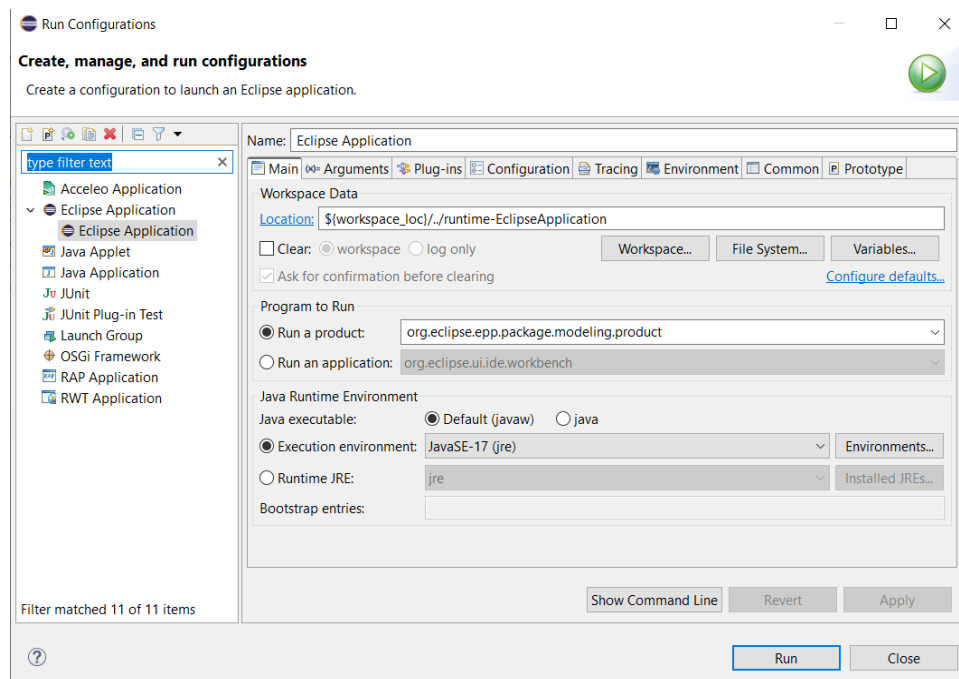


Figure 25 - run configuration options to an Eclipse Application

10. Right after your new run start, you can create a project going to File -> New -> Project -> expand the General folder -> Project -> give a name to the new project (starting with an lowercase) -> Finish

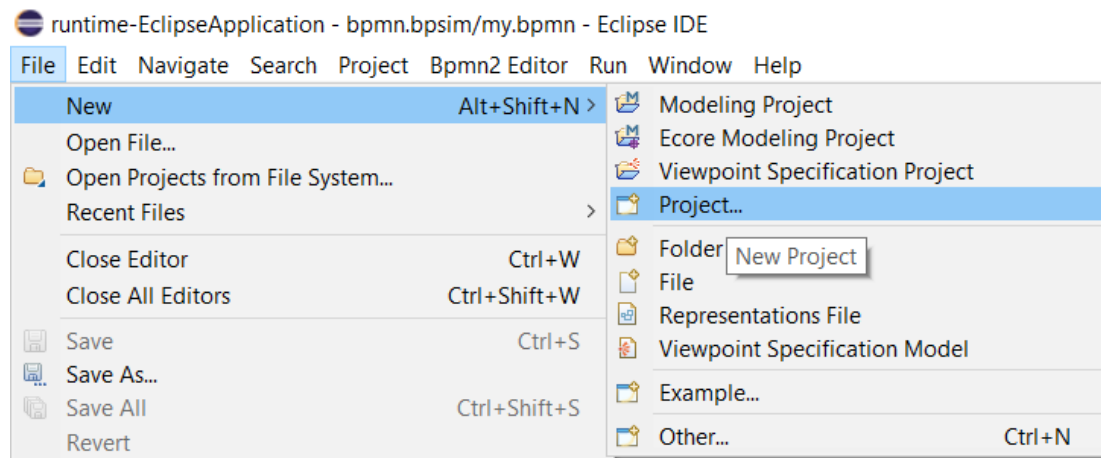


Figure 26 - creating a new project

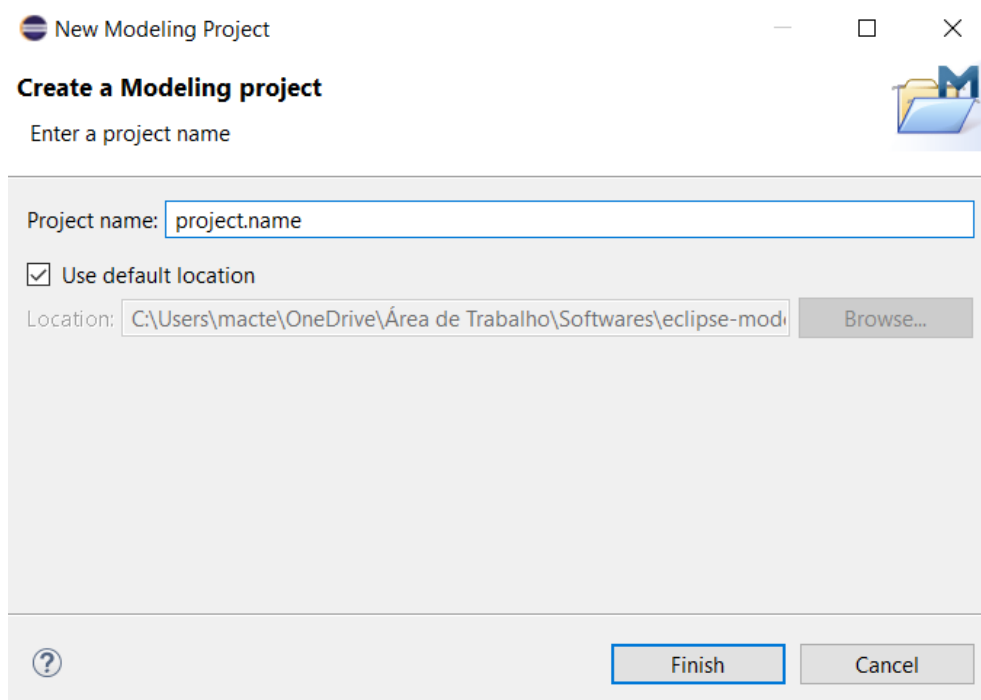


Figure 27 - giving a name to the project

11. To create a BPMN file, right click in the project -> New -> Other -> Expand BPMN designer -> BPMN Model -> give a name to the file or use the standard "my.bpmn" -> Finish.

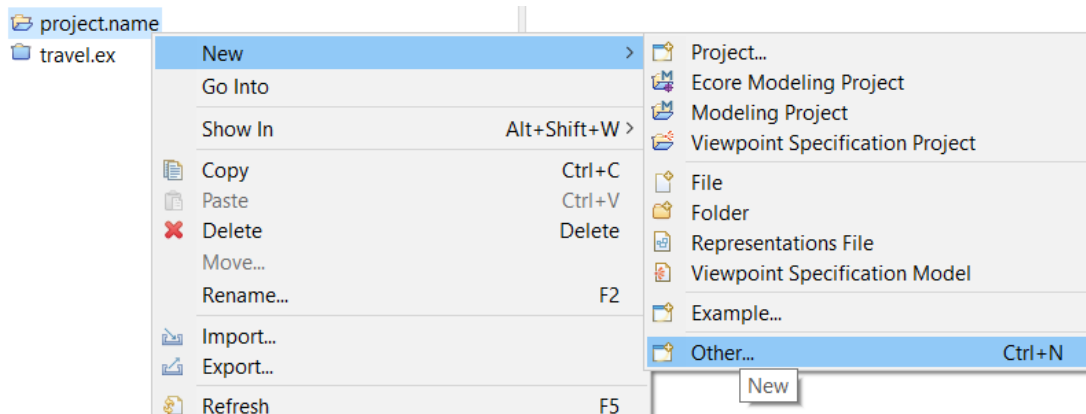


Figure 28 -> creating a new file within the project

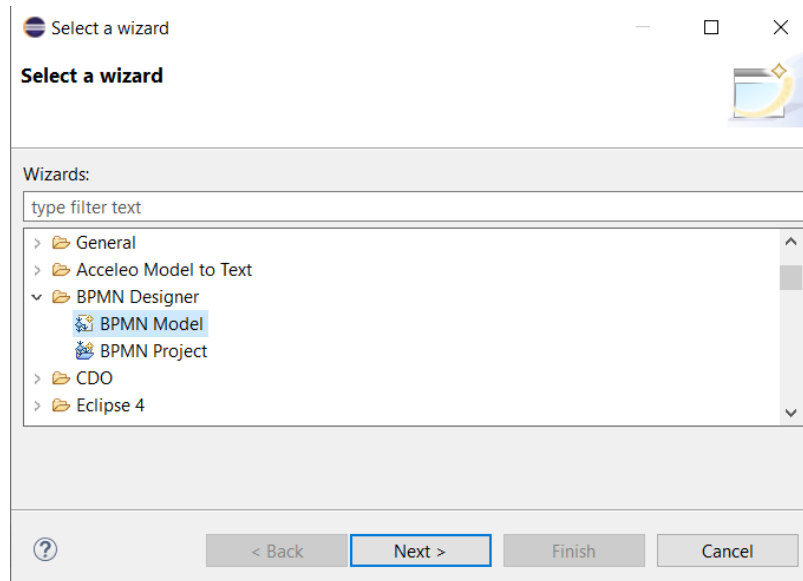


Figure 29 - selecting BPMN Model

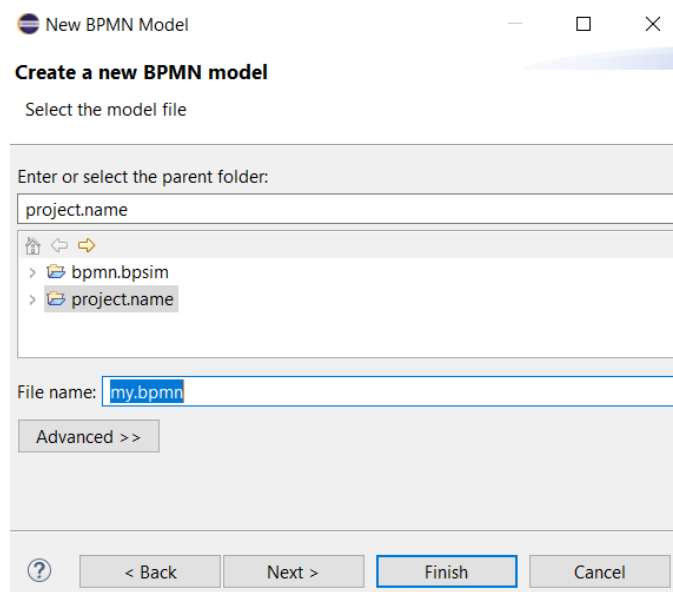


Figure 30 - choosing the file name

12. You will have a file like the figure below.

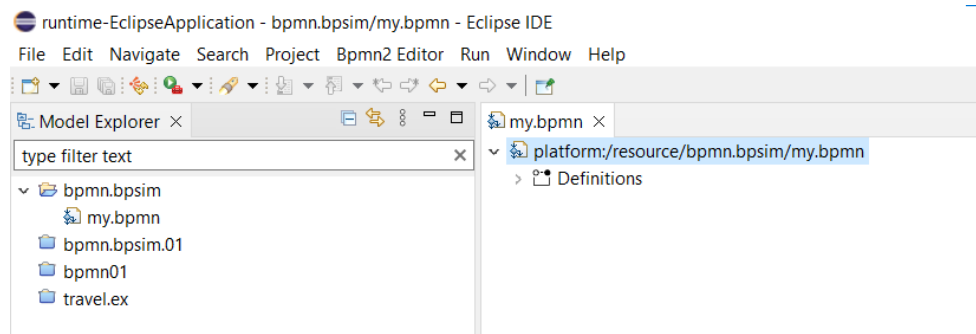


Figure 31 - showing a new bpmn file

13. Now, to create a BPMN + BPSim process , you can create new relations with a right click in Definitions -> New Child. There, you can select what you need to represent the process that you want. For this example of the Pizza file, you will need a Relationship, a Collaboration, 4 Process and 2 BPMN Diagrams.

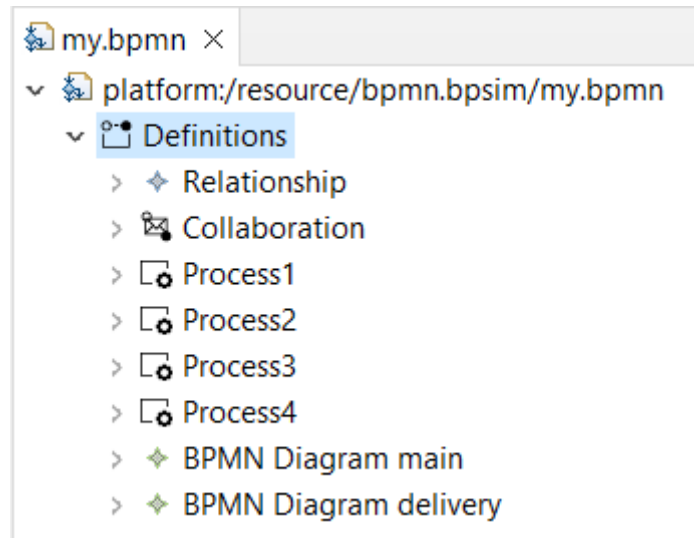


Figure 32 - Childs created within Definitions

- ✦ Resource Parameters
 - ✦ Parameter
 - ✦ Expression Parameter Type
 - ✦ Element Parameters Type
 - ✦ Time Parameters
 - ✦ Parameter
 - ✦ Triangular Distribution Type
 - ✦ Resource Parameters
 - ✦ Parameter
 - ✦ Expression Parameter Type
 - ✦ Element Parameters Type
 - ✦ Time Parameters
 - ✦ Parameter
 - ✦ Triangular Distribution Type
 - ✦ Element Parameters Type
 - ✦ Time Parameters
 - ✦ Parameter
 - ✦ Triangular Distribution Type
 - ✦ Element Parameters Type
 - ✦ Time Parameters
 - ✦ Parameter
 - ✦ Triangular Distribution Type
 - ✦ Element Parameters Type
 - ✦ Time Parameters
 - ✦ Parameter
 - ✦ Triangular Distribution Type
 - ✦ Resource Parameters
 - ✦ Parameter
 - ✦ Expression Parameter Type
 - ✦ Cost Parameters
 - ✦ Parameter
 - ✦ Floating Parameter Type
- ✦ Element Parameters Type
 - ✦ Time Parameters
 - ✦ Parameter
 - ✦ Triangular Distribution Type
 - ✦ Resource Parameters
 - ✦ Parameter
 - ✦ Expression Parameter Type
- ✦ Element Parameters Type
 - ✦ Time Parameters
 - ✦ Parameter
 - ✦ Triangular Distribution Type
 - ✦ Resource Parameters
 - ✦ Parameter
 - ✦ Expression Parameter Type
- ✦ Element Parameters Type
 - ✦ Time Parameters
 - ✦ Parameter
 - ✦ max
 - ✦ min
 - ✦ mean
 - ✦ Cost Parameters
 - ✦ Parameter
 - ✦ max
 - ✦ min
 - ✦ mean

- ✦ <scenario> Scenario car_delivery
 - ✦ Scenario Parameters Type EUR
 - ✦ Parameter
 - ✦ Date Time Parameter Type
 - ✦ Element Parameters Type
 - ✦ Control Parameters
 - ✦ Parameter
 - ✦ Numeric Parameter Type
 - ✦ Parameter
 - ✦ Numeric Parameter Type
 - ✦ Element Parameters Type
 - ✦ Time Parameters
 - ✦ Parameter
 - ✦ Triangular Distribution Type
 - ✦ Element Parameters Type
 - ✦ Time Parameters
 - ✦ Parameter
 - ✦ Triangular Distribution Type
 - ✦ Element Parameters Type
 - ✦ Control Parameters
 - ✦ Parameter
 - ✦ Numeric Parameter Type
 - ✦ Element Parameters Type
 - ✦ Time Parameters
 - ✦ Parameter
 - ✦ count
 - ✦ Triangular Distribution Type
 - ✦ Resource Parameters
 - ✦ Parameter
 - ✦ Expression Parameter Type
 - ✦ Element Parameters Type
 - ✦ Time Parameters
 - ✦ Parameter
 - ✦ Triangular Distribution Type

- └─ Resource Parameters
 - └─ Parameter
 - └─ Expression Parameter Type
- └─ Element Parameters Type
 - └─ Time Parameters
 - └─ Parameter
 - └─ Triangular Distribution Type
- └─ Element Parameters Type
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 - └─ Triangular Distribution Type
- └─ Element Parameters Type
 - └─ Time Parameters
 - └─ Parameter
 - └─ Triangular Distribution Type
- └─ Resource Parameters
 - └─ Parameter
 - └─ Expression Parameter Type
- └─ Cost Parameters
 - └─ Parameter
 - └─ Floating Parameter Type
- └─ Element Parameters Type
 - └─ Time Parameters
 - └─ Parameter
 - └─ Triangular Distribution Type
- └─ Resource Parameters
 - └─ Parameter
 - └─ Expression Parameter Type
- └─ Element Parameters Type
 - └─ Time Parameters
 - └─ Parameter
 - └─ Triangular Distribution Type
- └─ Resource Parameters
 - └─ Parameter
 - └─ Expression Parameter Type
- └─ Element Parameters Type
 - └─ Time Parameters
 - └─ Parameter
 - └─ max
 - └─ min
 - └─ mean
- └─ Cost Parameters
 - └─ Parameter
 - └─ max
 - └─ min
 - └─ mean

Figures 33 to 38 - all childrens after Relationship

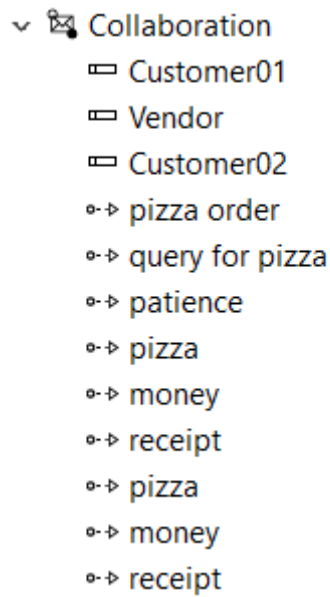


Figure 39 - all childrens after Collaborations

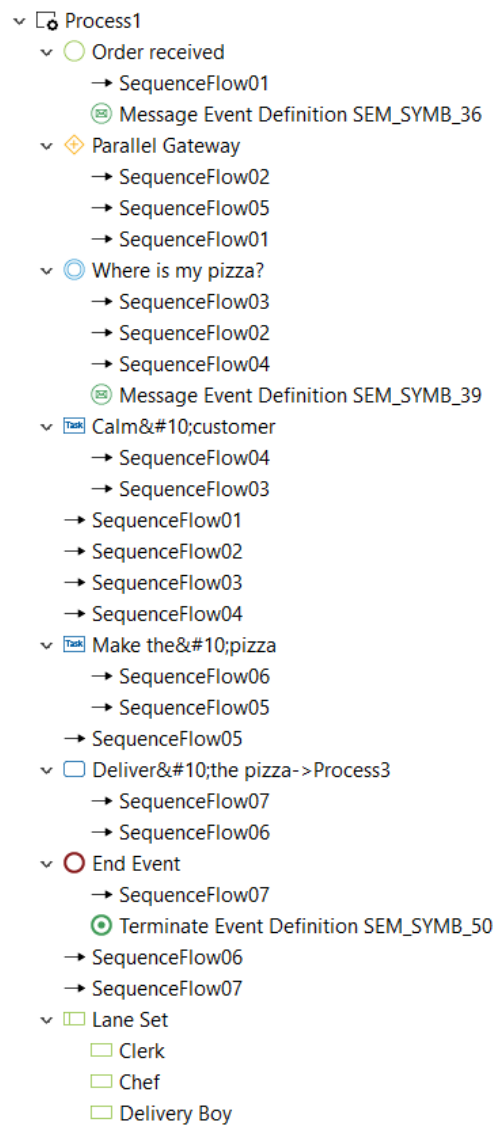


Figure 40 - all childrens after Process1

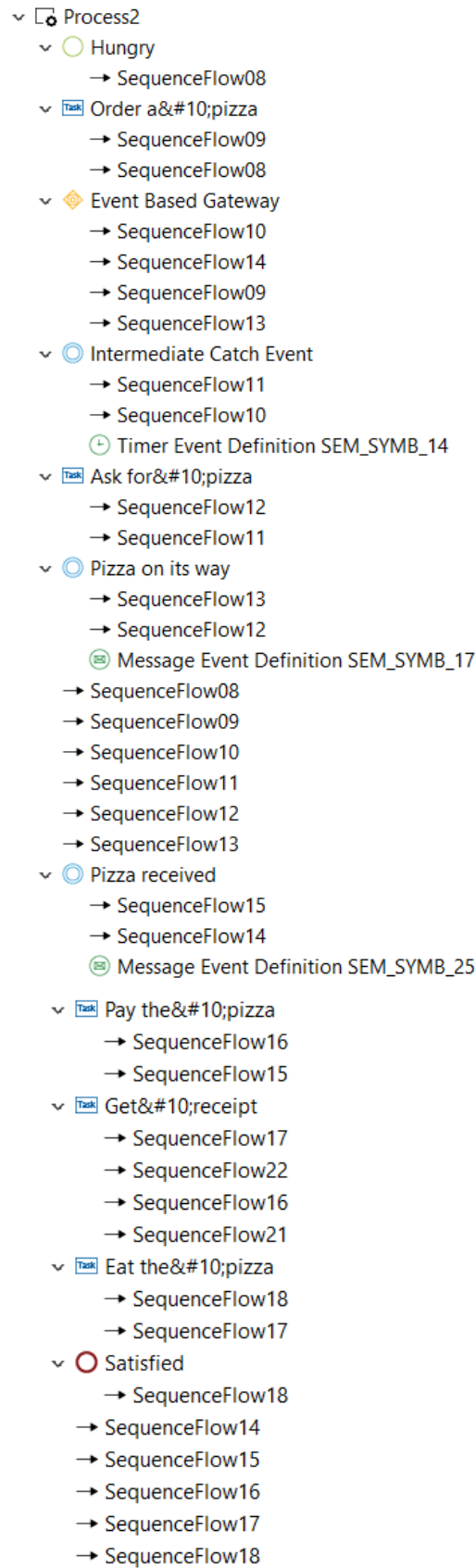


Figure 40 and 41 - all childrens after Process2







- ▼  Process3
 - ▼  StartEventt
 - SequenceFlow19
 - ▼  Get to
customer
 - SequenceFlow20
 - SequenceFlow19
 - ▼  Get the
money
 - SequenceFlow21
 - SequenceFlow20
 -  Give the
receipt
 - ▼  EndEventt
 - SequenceFlow22
 - SequenceFlow19
 - SequenceFlow20
 - SequenceFlow21
 - SequenceFlow22

Figure 42 - all childrens after Process3



- ▼  Process4
 - ▼  Text Annotation SEM_SYMB_77
 - ◆ Documentation

Figure 43 - all childrens after Process4

- ▼ ◆ BPMN Diagram main
 - ▼ ◆ BPMN Plane
 - ▼ ◆ BPMN Shape true
 - ◆ Bounds 20.0
 - ▼ ◆ BPMN Shape true
 - ◆ Bounds 20.0
 - ▼ ◆ BPMN Shape false
 - ◆ Bounds 1153.0
 - ▼ ◆ BPMN Shape false
 - ◆ Bounds 70.0
 - ▼ ◆ BPMN Shape false
 - ◆ Bounds 160.0
 - ▼ ◆ BPMN Shape false
 - ◆ Bounds 300.0
 - ▼ ◆ BPMN Shape false
 - ◆ Bounds 360.0
 - ▼ ◆ BPMN Shape true
 - ◆ Bounds 440.0
 - ▼ ◆ BPMN Shape true
 - ◆ Bounds 550.0

- ✦ BPMN Shape false
 - ✦ Bounds 660.0
- ✦ BPMN Shape false
 - ✦ Bounds 740.0
- ✦ BPMN Shape false
 - ✦ Bounds 840.0
- ✦ BPMN Shape false
 - ✦ Bounds 940.0
- ✦ BPMN Shape false
 - ✦ Bounds 1040.0
- ✦ BPMN Shape true
 - ✦ Bounds 50.0
- ✦ BPMN Shape true
 - ✦ Bounds 50.0
- ✦ BPMN Shape true
 - ✦ Bounds 50.0
- ✦ BPMN Shape false
 - ✦ Bounds 170.0
- ✦ BPMN Shape false
 - ✦ Bounds 310.0
- ✦ BPMN Shape false
 - ✦ Bounds 440.0
- ✦ BPMN Shape false
 - ✦ Bounds 530.0
- ✦ BPMN Shape false
 - ✦ Bounds 430.0
- ✦ BPMN Shape false
 - ✦ Bounds 702.0
- ✦ BPMN Shape false
 - ✦ Bounds 888.0
- ✦ BPMN Edge initiating
 - ✦ Point 90.0
 - ✦ Point 190.0
- ✦ BPMN Edge initiating
 - ✦ Point 190.0
 - ✦ Point 320.0
- ✦ BPMN Edge initiating
 - ✦ Point 320.0
 - ✦ Point 320.0
 - ✦ Point 380.0
- ✦ BPMN Edge initiating
 - ✦ Point 380.0
 - ✦ Point 470.0
- ✦ BPMN Edge initiating
 - ✦ Point 470.0
 - ✦ Point 570.0
- ✦ BPMN Edge initiating
 - ✦ Point 570.0
 - ✦ Point 640.0
 - ✦ Point 640.0
 - ✦ Point 260.0
 - ✦ Point 260.0
 - ✦ Point 320.0
- ✦ BPMN Edge initiating
 - ✦ Point 320.0
 - ✦ Point 680.0
- ✦ BPMN Edge initiating
 - ✦ Point 680.0
 - ✦ Point 770.0
- ✦ BPMN Edge initiating
 - ✦ Point 770.0
 - ✦ Point 870.0
- ✦ BPMN Edge initiating
 - ✦ Point 870.0
 - ✦ Point 970.0
- ✦ BPMN Edge initiating
 - ✦ Point 970.0
 - ✦ Point 1060.0
- ✦ BPMN Edge initiating
 - ✦ Point 190.0
 - ✦ Point 330.0

- ✦ BPMN Edge initiating
 - ✦ Point 330.0
 - ✦ Point 460.0
 - ✦ BPMN Edge initiating
 - ✦ Point 460.0
 - ✦ Point 570.0
 - ✦ BPMN Edge initiating
 - ✦ Point 570.0
 - ✦ Point 650.0
 - ✦ Point 650.0
 - ✦ Point 378.0
 - ✦ Point 378.0
 - ✦ Point 460.0
 - ✦ BPMN Edge initiating
 - ✦ Point 330.0
 - ✦ Point 330.0
 - ✦ Point 475.0
 - ✦ BPMN Edge initiating
 - ✦ Point 475.0
 - ✦ Point 623.0
 - ✦ Point 623.0
 - ✦ Point 771.0
 - ✦ BPMN Edge initiating
 - ✦ Point 771.0
 - ✦ Point 908.0
 - ✦ BPMN Edge initiating
 - ✦ Point 190.0
 - ✦ Point 190.0
 - ✦ Point 190.0
 - ✦ Point 190.0
 - ✦ BPMN Edge initiating
 - ✦ Point 470.0
 - ✦ Point 470.0
 - ✦ Point 460.0
 - ✦ Point 460.0
 - ✦ BPMN Edge initiating
 - ✦ Point 570.0
 - ✦ Point 570.0
 - ✦ Point 570.0
 - ✦ Point 570.0
 - ✦ BPMN Edge initiating
 - ✦ Point 730.0
 - ✦ Point 730.0
 - ✦ Point 680.0
 - ✦ Point 680.0
 - ✦ BPMN Edge initiating
 - ✦ Point 770.0
 - ✦ Point 771.0
 - ✦ BPMN Edge initiating
 - ✦ Point 810.0
 - ✦ Point 810.0
 - ✦ Point 870.0
 - ✦ Point 870.0

Figure 44 to 48 - all childrens after BPMNDiagram main

- Figure 49 - all childrens after BPMN Diagram delivery

Figure 49 - all childrens after BPMN Diagram delivery

15. To see your BPMN in a code format, you can right click in your bpmn file -> Open With -> Text Editor.

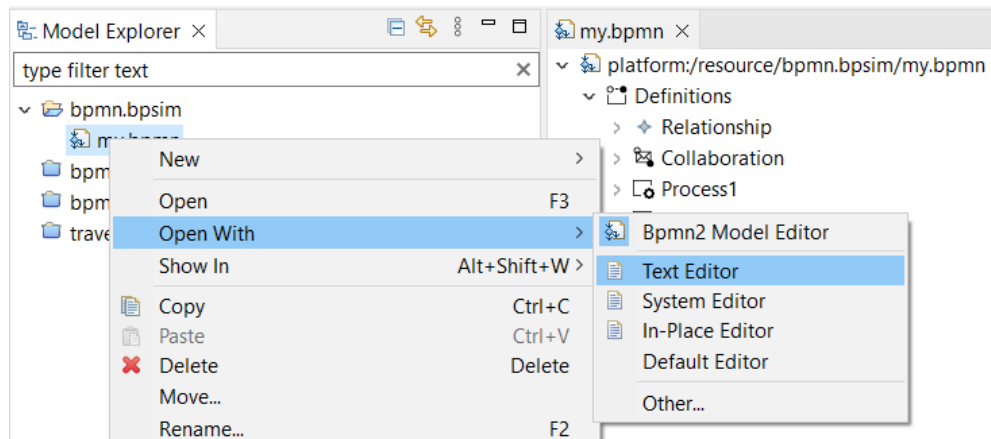


Figure 50 - opening your file in a text format

16. After finishing all those steps, you can see your final BPMN + BPSim code which represents your process. In this case, we can compare our generated code with the Pizza file.

Final observations:

As you will see comparing the two codes, we can do a very similar code to the Pizza file with just the ecore files that we already have, with just some changes. Some differences are just visual, but others differences are relations or details that couldn't be made with the ecore files that we already have and improvements are needed to fix those differences. The most important examples are:

1. The order of certain information, for example, in our code "Relationship" are the first, but in the Pizza file, "Relationship" are the last to appear.
2. The properties "Source Ref", "Target Ref", "Process Ref", "Bpmn Element" made relation with the name that you give, and not with the Id as the Pizza file indicates.
3. We don't have the information "bpmndi" "di" "bpsim" "bpmn" etc before the type of information like can be found in the Pizza file.
4. It was necessary to give a name to some information like the SequenceFlow, MessageFlow, Process etc because of topic number 2.

If you need to make any other relation in BPMN20.ecore or in bpsim2.ecore that's not implemented yet, you can make a new EReference like in the steps 5 and 6. If needed, you can also do the step 7 to enable the children creation of the new relation created.

Generated code:

```
<?xml version="1.0" encoding="ASCII"?>
<bpmn:Definitions xmi:version="2.0" xmlns:xmi="http://www.omg.org/XMI"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:bpmn="http://www.omg.org/spec/BPMN/20100524/MODEL-XMI"
xmlns:bpmndi="http://www.omg.org/spec/BPMN/20100524/DI-XMI" id="_i0BIUBWvEe6VgOwYBp1j5g"
name="Definitions">
```

```

<relationship id="" type="BPSimData">
  <extensionElements id="_9z_GoRy-Ee6ox8vtDVsoTg">
    <bpsimData>
      <scenario author="Mateus Ximenes" created="2023-07-24T14:53:42" description="In this simulation
scenario a bike is used to deliver the pizza to the customers." id="SEM_SYMB_74"
modified="2023-07-24T10:47:14" name="bike_delivery" version="1.0">
        <scenarioParameters baseCurrencyUnit="EUR" replication="100" seed="123456"
traceFormat="logs+critical_path_heatmap+resource_usage+resource_wait_time_heatmap" traceOutput="true">
          <start>
            <dateTimeParameter value="2022-10-04T00:00:00"/>
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<scenario author="Mateus Ximenes" created="2023-07-24T10:28:13" description="In this simulation
scenario a car is used to deliver the pizza to the customers." id="SEM_SYMB_75"
modified="2023-07-24T10:47:12" name="car_delivery" version="1.0">
  <scenarioParameters baseCurrencyUnit="EUR" replication="100" seed="123456"
traceFormat="logs+critical_path_heatmap+resource_usage+resource_wait_time_heatmap" traceOutput="true">
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    </selection>
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        </unitCost>
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processRef="SEM_SYMB_9_dbf346b4e2454e146518362d1a9922d7"/>
    <participants id="SEM_SYMB_3" name="Vendor"
processRef="SEM_SYMB_4_f04a6565a0e766464843044cedf61f06"/>
    <participants id="SEM_SYMB_60" name="Customer02"/>
    <messageFlows id="SEM_SYMB_53" name="pizza order" sourceRef="SEM_SYMB_11"
targetRef="SEM_SYMB_35"/>
    <messageFlows id="SEM_SYMB_54" name="query for pizza" sourceRef="SEM_SYMB_15"
targetRef="SEM_SYMB_38"/>
    <messageFlows id="SEM_SYMB_55" name="patience" sourceRef="SEM_SYMB_40"
targetRef="SEM_SYMB_16"/>
    <messageFlows id="SEM_SYMB_57" name="pizza" sourceRef="SEM_SYMB_48"
targetRef="SEM_SYMB_24"/>
    <messageFlows id="SEM_SYMB_58" name="money" sourceRef="SEM_SYMB_26"
targetRef="SEM_SYMB_48"/>
    <messageFlows id="SEM_SYMB_59" name="receipt" sourceRef="SEM_SYMB_48"
targetRef="SEM_SYMB_27"/>
    <messageFlows id="SEM_SYMB_71" name="pizza2" sourceRef="SEM_SYMB_63"
targetRef="SEM_SYMB_60"/>
    <messageFlows id="SEM_SYMB_72" name="money2" sourceRef="SEM_SYMB_60"
targetRef="SEM_SYMB_64"/>
    <messageFlows id="SEM_SYMB_73" name="receipt2" sourceRef="SEM_SYMB_65"
targetRef="SEM_SYMB_60"/>
</rootElements>
<rootElements xsi:type="bpmn:Process" id="SEM_SYMB_4_f04a6565a0e766464843044cedf61f06"
name="Process1">
    <flowElements xsi:type="bpmn:StartEvent" id="SEM_SYMB_35" name="Order received"
outgoing="SEM_SYMB_41">
        <eventDefinitions xsi:type="bpmn:MessageEventDefinition" id="SEM_SYMB_36"/>
    </flowElements>
    <flowElements xsi:type="bpmn:ParallelGateway" id="SEM_SYMB_37" name="" outgoing="SEM_SYMB_42
SEM_SYMB_47" incoming="SEM_SYMB_41"/>
    <flowElements xsi:type="bpmn:IntermediateCatchEvent" id="SEM_SYMB_38" name="Where is my pizza?"
outgoing="SEM_SYMB_43" incoming="SEM_SYMB_42 SEM_SYMB_45">
        <eventDefinitions xsi:type="bpmn:MessageEventDefinition" id="SEM_SYMB_39"/>
    </flowElements>
    <flowElements xsi:type="bpmn:Task" id="SEM_SYMB_40" name="Calm&#10;customer"
outgoing="SEM_SYMB_45" incoming="SEM_SYMB_43"/>
    <flowElements xsi:type="bpmn:SequenceFlow" id="SEM_SYMB_41" name="SequenceFlow01"
targetRef="SEM_SYMB_37" sourceRef="SEM_SYMB_35"/>
    <flowElements xsi:type="bpmn:SequenceFlow" id="SEM_SYMB_42" name="SequenceFlow02"
targetRef="SEM_SYMB_38" sourceRef="SEM_SYMB_37"/>
    <flowElements xsi:type="bpmn:SequenceFlow" id="SEM_SYMB_43" name="SequenceFlow03"
targetRef="SEM_SYMB_40" sourceRef="SEM_SYMB_38"/>
    <flowElements xsi:type="bpmn:SequenceFlow" id="SEM_SYMB_45" name="SequenceFlow04"
targetRef="SEM_SYMB_38" sourceRef="SEM_SYMB_40"/>
    <flowElements xsi:type="bpmn:Task" id="SEM_SYMB_46" name="Make the&#10;pizza"
outgoing="SEM_SYMB_51" incoming="SEM_SYMB_47"/>
    <flowElements xsi:type="bpmn:SequenceFlow" id="SEM_SYMB_47" name="SequenceFlow05"
targetRef="SEM_SYMB_46" sourceRef="SEM_SYMB_37"/>

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    <flowElements xsi:type="bpmn:CallActivity" id="SEM_SYMB_48" name="Deliver&#10;the pizza"
    outgoing="SEM_SYMB_52" incoming="SEM_SYMB_51"
    calledElementRef="SEM_SYMB_61_94d4f68e1c50ee510ee398c0d7417a91"/>
    <flowElements xsi:type="bpmn:EndEvent" id="SEM_SYMB_49" incoming="SEM_SYMB_52">
      <eventDefinitions xsi:type="bpmn:TerminateEventDefinition" id="SEM_SYMB_50"/>
    </flowElements>
    <flowElements xsi:type="bpmn:SequenceFlow" id="SEM_SYMB_51" name="SequenceFlow06"
    targetRef="SEM_SYMB_48" sourceRef="SEM_SYMB_46"/>
    <flowElements xsi:type="bpmn:SequenceFlow" id="SEM_SYMB_52" name="SequenceFlow07"
    targetRef="SEM_SYMB_49" sourceRef="SEM_SYMB_48"/>
    <laneSets id="SEM_SYMB_5">
      <lanes id="SEM_SYMB_6" name="Clerk" flowNodeRefs="SEM_SYMB_35 SEM_SYMB_37 SEM_SYMB_38
    SEM_SYMB_40"/>
      <lanes id="SEM_SYMB_7" name="Chef" flowNodeRefs="SEM_SYMB_46"/>
      <lanes id="SEM_SYMB_8" name="Delivery Boy" flowNodeRefs="SEM_SYMB_48 SEM_SYMB_49"/>
    </laneSets>
  </rootElements>
</rootElements xsi:type="bpmn:Process" id="SEM_SYMB_9_dbf346b4e2454e146518362d1a9922d7"
name="Process2">
  <flowElements xsi:type="bpmn:StartEvent" id="SEM_SYMB_10" name="Hungry"
    outgoing="SEM_SYMB_18"/>
  <flowElements xsi:type="bpmn:Task" id="SEM_SYMB_11" name="Order a&#10;pizza"
    outgoing="SEM_SYMB_19" incoming="SEM_SYMB_18"/>
  <flowElements xsi:type="bpmn:EventBasedGateway" id="SEM_SYMB_12" outgoing="SEM_SYMB_20
    SEM_SYMB_30" incoming="SEM_SYMB_19 SEM_SYMB_23"/>
  <flowElements xsi:type="bpmn:IntermediateCatchEvent" id="_GuxsHiEMe6d-YBk4t851A"
    outgoing="SEM_SYMB_21" incoming="SEM_SYMB_20">
    <eventDefinitions xsi:type="bpmn:TimerEventDefinition" id="SEM_SYMB_14"/>
  </flowElements>
  <flowElements xsi:type="bpmn:Task" id="SEM_SYMB_15" name="Ask for&#10;pizza"
    outgoing="SEM_SYMB_22" incoming="SEM_SYMB_21"/>
  <flowElements xsi:type="bpmn:IntermediateCatchEvent" id="SEM_SYMB_16" name="Pizza on its way"
    outgoing="SEM_SYMB_23" incoming="SEM_SYMB_22">
    <eventDefinitions xsi:type="bpmn:MessageEventDefinition" id="SEM_SYMB_17"/>
  </flowElements>
  <flowElements xsi:type="bpmn:SequenceFlow" id="SEM_SYMB_18" name="SequenceFlow08"
    targetRef="SEM_SYMB_11" sourceRef="SEM_SYMB_10"/>
  <flowElements xsi:type="bpmn:SequenceFlow" id="SEM_SYMB_19" name="SequenceFlow09"
    targetRef="SEM_SYMB_12" sourceRef="SEM_SYMB_11"/>
  <flowElements xsi:type="bpmn:SequenceFlow" id="SEM_SYMB_20" name="SequenceFlow10"
    targetRef="_GuxsHiEMe6d-YBk4t851A" sourceRef="SEM_SYMB_12"/>
  <flowElements xsi:type="bpmn:SequenceFlow" id="SEM_SYMB_21" name="SequenceFlow11"
    targetRef="SEM_SYMB_15" sourceRef="_GuxsHiEMe6d-YBk4t851A"/>
  <flowElements xsi:type="bpmn:SequenceFlow" id="SEM_SYMB_22" name="SequenceFlow12"
    targetRef="SEM_SYMB_16" sourceRef="SEM_SYMB_15"/>
  <flowElements xsi:type="bpmn:SequenceFlow" id="SEM_SYMB_23" name="SequenceFlow13"
    targetRef="SEM_SYMB_12" sourceRef="SEM_SYMB_16"/>
  <flowElements xsi:type="bpmn:IntermediateCatchEvent" id="SEM_SYMB_24" name="Pizza received"
    outgoing="SEM_SYMB_31" incoming="SEM_SYMB_30">
    <eventDefinitions xsi:type="bpmn:MessageEventDefinition" id="SEM_SYMB_25"/>
  </flowElements>
  <flowElements xsi:type="bpmn:Task" id="SEM_SYMB_26" name="Pay the&#10;pizza"
    outgoing="SEM_SYMB_32" incoming="SEM_SYMB_31"/>
  <flowElements xsi:type="bpmn:Task" id="SEM_SYMB_27" name="Get&#10;receipt"
    outgoing="SEM_SYMB_33 SEM_SYMB_70" incoming="SEM_SYMB_32 SEM_SYMB_69"/>
  <flowElements xsi:type="bpmn:Task" id="SEM_SYMB_28" name="Eat the&#10;pizza"
    outgoing="SEM_SYMB_34" incoming="SEM_SYMB_33"/>

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    <flowElements xsi:type="bpmn:EndEvent" id="SEM_SYMB_29" name="Satisfied"
incoming="SEM_SYMB_34"/>
    <flowElements xsi:type="bpmn:SequenceFlow" id="SEM_SYMB_30" name="SequenceFlow14"
targetRef="SEM_SYMB_24" sourceRef="SEM_SYMB_12"/>
    <flowElements xsi:type="bpmn:SequenceFlow" id="SEM_SYMB_31" name="SequenceFlow15"
targetRef="SEM_SYMB_26" sourceRef="SEM_SYMB_24"/>
    <flowElements xsi:type="bpmn:SequenceFlow" id="SEM_SYMB_32" name="SequenceFlow16"
targetRef="SEM_SYMB_27" sourceRef="SEM_SYMB_26"/>
    <flowElements xsi:type="bpmn:SequenceFlow" id="SEM_SYMB_33" name="SequenceFlow17"
targetRef="SEM_SYMB_28" sourceRef="SEM_SYMB_27"/>
    <flowElements xsi:type="bpmn:SequenceFlow" id="SEM_SYMB_34" name="SequenceFlow18"
targetRef="SEM_SYMB_29" sourceRef="SEM_SYMB_28"/>
  </rootElements>
  <rootElements xsi:type="bpmn:Process" id="SEM_SYMB_61_94d4f68e1c50ee510ee398c0d7417a91"
name="Process3">
    <flowElements xsi:type="bpmn:StartEvent" id="SEM_SYMB_62" name="StartEventt"
outgoing="SEM_SYMB_67"/>
    <flowElements xsi:type="bpmn:Task" id="SEM_SYMB_63" name="Get to&#10;customer"
outgoing="SEM_SYMB_68" incoming="SEM_SYMB_67"/>
    <flowElements xsi:type="bpmn:Task" id="SEM_SYMB_64" name="Get the&#10;money"
outgoing="SEM_SYMB_69" incoming="SEM_SYMB_68"/>
    <flowElements xsi:type="bpmn:Task" id="SEM_SYMB_65" name="Give the&#10;receipt"/>
    <flowElements xsi:type="bpmn:EndEvent" id="SEM_SYMB_66" name="EndEventt"
incoming="SEM_SYMB_70"/>
    <flowElements xsi:type="bpmn:SequenceFlow" id="SEM_SYMB_67" name="SequenceFlow19"
targetRef="SEM_SYMB_63" sourceRef="SEM_SYMB_62"/>
    <flowElements xsi:type="bpmn:SequenceFlow" id="SEM_SYMB_68" name="SequenceFlow20"
targetRef="SEM_SYMB_64" sourceRef="SEM_SYMB_63"/>
    <flowElements xsi:type="bpmn:SequenceFlow" id="SEM_SYMB_69" name="SequenceFlow21"
targetRef="SEM_SYMB_27" sourceRef="SEM_SYMB_64"/>
    <flowElements xsi:type="bpmn:SequenceFlow" id="SEM_SYMB_70" name="SequenceFlow22"
targetRef="SEM_SYMB_66" sourceRef="SEM_SYMB_27"/>
  </rootElements>
  <rootElements xsi:type="bpmn:Process" id="SEM_SYMB_76_fcd7c753a4f94aa2ef0c89237501d2fe"
name="Process4">
    <artifacts xsi:type="bpmn:TextAnnotation" id="SEM_SYMB_77">
      <documentation id="" text="Process for pizza order"/>
    </artifacts>
  </rootElements>
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  </diagrams>

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</planeElement>
<planeElement xsi:type="bpmndi:BPMNShape" bpmnElement="SEM_SYMB_35">
  <bounds x="170.0" y="310.0" width="40.0" height="40.0"/>
</planeElement>
<planeElement xsi:type="bpmndi:BPMNShape" bpmnElement="SEM_SYMB_37">
  <bounds x="310.0" y="310.0" width="40.0" height="40.0"/>
</planeElement>
<planeElement xsi:type="bpmndi:BPMNShape" bpmnElement="SEM_SYMB_38">
  <bounds x="440.0" y="310.0" width="40.0" height="40.0"/>
</planeElement>
<planeElement xsi:type="bpmndi:BPMNShape" bpmnElement="SEM_SYMB_40">
  <bounds x="530.0" y="300.0" width="1080.0" height="200.0"/>
</planeElement>
<planeElement xsi:type="bpmndi:BPMNShape" bpmnElement="SEM_SYMB_46">
  <bounds x="430.0" y="485.0" width="90.0" height="68.0"/>
</planeElement>
<planeElement xsi:type="bpmndi:BPMNShape" bpmnElement="SEM_SYMB_48">
  <bounds x="702.0" y="621.0" width="138.0" height="68.0"/>
</planeElement>
<planeElement xsi:type="bpmndi:BPMNShape" bpmnElement="SEM_SYMB_49">
  <bounds x="888.0" y="636.0" width="40.0" height="40.0"/>
</planeElement>
<planeElement xsi:type="bpmndi:BPMNEdge" bpmnElement="SEM_SYMB_18">
  <waypoint x="90.0" y="70.0"/>
  <waypoint x="190.0" y="70.0"/>

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```

</planeElement>
<planeElement xsi:type="bpmndi:BPMNEdge" bpmnElement="SEM_SYMB_19">
  <waypoint x="190.0" y="70.0"/>
  <waypoint x="320.0" y="70.0"/>
</planeElement>
<planeElement xsi:type="bpmndi:BPMNEdge" bpmnElement="SEM_SYMB_20">
  <waypoint x="320.0" y="70.0"/>
  <waypoint x="320.0" y="140.0"/>
  <waypoint x="380.0" y="140.0"/>
</planeElement>
<planeElement xsi:type="bpmndi:BPMNEdge" bpmnElement="SEM_SYMB_21">
  <waypoint x="380.0" y="140.0"/>
  <waypoint x="470.0" y="140.0"/>
</planeElement>
<planeElement xsi:type="bpmndi:BPMNEdge" bpmnElement="SEM_SYMB_22">
  <waypoint x="470.0" y="140.0"/>
  <waypoint x="570.0" y="140.0"/>
</planeElement>
<planeElement xsi:type="bpmndi:BPMNEdge" bpmnElement="SEM_SYMB_23">
  <waypoint x="570.0" y="140.0"/>
  <waypoint x="640.0" y="140.0"/>
  <waypoint x="640.0" y="200.0"/>
  <waypoint x="260.0" y="200.0"/>
  <waypoint x="260.0" y="70.0"/>
  <waypoint x="320.0" y="70.0"/>
</planeElement>
<planeElement xsi:type="bpmndi:BPMNEdge" bpmnElement="SEM_SYMB_30">
  <waypoint x="320.0" y="70.0"/>
  <waypoint x="680.0" y="70.0"/>
</planeElement>
<planeElement xsi:type="bpmndi:BPMNEdge" bpmnElement="SEM_SYMB_31">
  <waypoint x="680.0" y="330.0"/>
  <waypoint x="770.0" y="330.0"/>
</planeElement>
<planeElement xsi:type="bpmndi:BPMNEdge" bpmnElement="SEM_SYMB_32">
  <waypoint x="770.0" y="70.0"/>
  <waypoint x="870.0" y="70.0"/>
</planeElement>
<planeElement xsi:type="bpmndi:BPMNEdge" bpmnElement="SEM_SYMB_33">
  <waypoint x="870.0" y="70.0"/>
  <waypoint x="970.0" y="70.0"/>
</planeElement>
<planeElement xsi:type="bpmndi:BPMNEdge" bpmnElement="SEM_SYMB_34">
  <waypoint x="970.0" y="70.0"/>
  <waypoint x="1060.0" y="70.0"/>
</planeElement>
<planeElement xsi:type="bpmndi:BPMNEdge" bpmnElement="SEM_SYMB_41">
  <waypoint x="190.0" y="330.0"/>
  <waypoint x="330.0" y="330.0"/>
</planeElement>
<planeElement xsi:type="bpmndi:BPMNEdge" bpmnElement="SEM_SYMB_42">
  <waypoint x="330.0" y="330.0"/>
  <waypoint x="460.0" y="330.0"/>
</planeElement>
<planeElement xsi:type="bpmndi:BPMNEdge" bpmnElement="SEM_SYMB_43">
  <waypoint x="460.0" y="330.0"/>
  <waypoint x="570.0" y="330.0"/>
</planeElement>

```

```

<planeElement xsi:type="bpmndi:BPMNEdge" bpmnElement="SEM_SYMB_45">
  <waypoint x="570.0" y="330.0"/>
  <waypoint x="650.0" y="330.0"/>
  <waypoint x="650.0" y="399.0"/>
  <waypoint x="378.0" y="399.0"/>
  <waypoint x="378.0" y="330.0"/>
  <waypoint x="460.0" y="330.0"/>
</planeElement>
<planeElement xsi:type="bpmndi:BPMNEdge" bpmnElement="SEM_SYMB_47">
  <waypoint x="330.0" y="330.0"/>
  <waypoint x="330.0" y="520.0"/>
  <waypoint x="475.0" y="519.0"/>
</planeElement>
<planeElement xsi:type="bpmndi:BPMNEdge" bpmnElement="SEM_SYMB_51">
  <waypoint x="475.0" y="519.0"/>
  <waypoint x="623.0" y="519.0"/>
  <waypoint x="623.0" y="654.0"/>
  <waypoint x="771.0" y="654.0"/>
</planeElement>
<planeElement xsi:type="bpmndi:BPMNEdge" bpmnElement="SEM_SYMB_52">
  <waypoint x="771.0" y="655.0"/>
  <waypoint x="908.0" y="656.0"/>
</planeElement>
<planeElement xsi:type="bpmndi:BPMNEdge" bpmnElement="SEM_SYMB_53">
  <waypoint x="190.0" y="70.0"/>
  <waypoint x="190.0" y="239.0"/>
  <waypoint x="190.0" y="240.0"/>
  <waypoint x="190.0" y="330.0"/>
</planeElement>
<planeElement xsi:type="bpmndi:BPMNEdge" bpmnElement="SEM_SYMB_54">
  <waypoint x="470.0" y="140.0"/>
  <waypoint x="470.0" y="240.0"/>
  <waypoint x="460.0" y="240.0"/>
  <waypoint x="460.0" y="330.0"/>
</planeElement>
<planeElement xsi:type="bpmndi:BPMNEdge" bpmnElement="SEM_SYMB_55">
  <waypoint x="570.0" y="330.0"/>
  <waypoint x="570.0" y="240.0"/>
  <waypoint x="570.0" y="242.0"/>
  <waypoint x="570.0" y="140.0"/>
</planeElement>
<planeElement xsi:type="bpmndi:BPMNEdge" bpmnElement="SEM_SYMB_57">
  <waypoint x="730.0" y="630.0"/>
  <waypoint x="730.0" y="350.0"/>
  <waypoint x="680.0" y="350.0"/>
  <waypoint x="680.0" y="70.0"/>
</planeElement>
<planeElement xsi:type="bpmndi:BPMNEdge" bpmnElement="SEM_SYMB_58">
  <waypoint x="770.0" y="70.0"/>
  <waypoint x="771.0" y="655.0"/>
</planeElement>
<planeElement xsi:type="bpmndi:BPMNEdge" bpmnElement="SEM_SYMB_59">
  <waypoint x="810.0" y="621.0"/>
  <waypoint x="810.0" y="350.0"/>
  <waypoint x="870.0" y="350.0"/>
  <waypoint x="870.0" y="70.0"/>
</planeElement>
</plane>

```

```

</diagrams>
<diagrams name="delivery" documentation="DI_SYMB_52">
  <plane bpmnElement="SEM_SYMB_1">
    <planeElement xsi:type="bpmndi:BPMNShape" bpmnElement="SEM_SYMB_60" isHorizontal="true">
      <bounds x="90.0" y="40.0" width="500.0" height="120.0"/>
    </planeElement>
    <planeElement xsi:type="bpmndi:BPMNShape" bpmnElement="SEM_SYMB_62">
      <bounds x="170.0" y="286.0" width="80.0" height="68.0"/>
    </planeElement>
    <planeElement xsi:type="bpmndi:BPMNShape" bpmnElement="SEM_SYMB_63">
      <bounds x="290.0" y="286.0" width="80.0" height="68.0"/>
    </planeElement>
    <planeElement xsi:type="bpmndi:BPMNShape" bpmnElement="SEM_SYMB_64">
      <bounds x="290.0" y="286.0" width="80.0" height="68.0"/>
    </planeElement>
    <planeElement xsi:type="bpmndi:BPMNShape" bpmnElement="SEM_SYMB_27">
      <bounds x="540.0" y="300.0" width="40.0" height="40.0"/>
    </planeElement>
    <planeElement xsi:type="bpmndi:BPMNShape" bpmnElement="SEM_SYMB_66">
      <bounds x="540.0" y="300.0" width="40.0" height="40.0"/>
    </planeElement>
    <planeElement xsi:type="bpmndi:BPMNEdge" bpmnElement="SEM_SYMB_67">
      <waypoint x="110.0" y="320.0"/>
      <waypoint x="210.0" y="320.0"/>
    </planeElement>
    <planeElement xsi:type="bpmndi:BPMNEdge" bpmnElement="SEM_SYMB_68">
      <waypoint x="220.0" y="320.0"/>
      <waypoint x="330.0" y="320.0"/>
    </planeElement>
    <planeElement xsi:type="bpmndi:BPMNEdge" bpmnElement="SEM_SYMB_69">
      <waypoint x="330.0" y="320.0"/>
      <waypoint x="450.0" y="320.0"/>
    </planeElement>
    <planeElement xsi:type="bpmndi:BPMNEdge" bpmnElement="SEM_SYMB_70">
      <waypoint x="460.0" y="320.0"/>
      <waypoint x="560.0" y="320.0"/>
    </planeElement>
    <planeElement xsi:type="bpmndi:BPMNEdge" bpmnElement="SEM_SYMB_71">
      <waypoint x="210.0" y="300.0"/>
      <waypoint x="210.0" y="160.0"/>
    </planeElement>
    <planeElement xsi:type="bpmndi:BPMNEdge" bpmnElement="SEM_SYMB_72">
      <waypoint x="330.0" y="160.0"/>
      <waypoint x="330.0" y="300.0"/>
    </planeElement>
    <planeElement xsi:type="bpmndi:BPMNEdge" bpmnElement="SEM_SYMB_73">
      <waypoint x="450.0" y="300.0"/>
      <waypoint x="450.0" y="160.0"/>
    </planeElement>
  </plane>
</diagrams>
</bpmn:Definitions>

```

Pizza file:

```
    ?xml version="1.0" encoding="UTF-8"?>
<bpmn:definitions xmlns:bpsim="http://www.bpsim.org/schemas/2.0"
xmlns:di="http://www.omg.org/spec/DD/20100524/DI"
xmlns:bpmndi="http://www.omg.org/spec/BPMN/20100524/DI"
xmlns:bpmn="http://www.omg.org/spec/BPMN/20100524/MODEL"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:dc="http://www.omg.org/spec/DD/20100524/DC" exporter="PragmaDev Process" exporterVersion="2.1"
targetNamespace="http://www.pragmadev.com/process/BPMN">
  <bpmn:collaboration id="SEM_SYMB_1">
    <bpmn:participant processRef="SEM_SYMB_9_dbf346b4e2454e146518362d1a9922d7" id="SEM_SYMB_2"
name="Customer"/>
    <bpmn:participant processRef="SEM_SYMB_4_f04a6565a0e766464843044cedf61f06" id="SEM_SYMB_3"
name="Vendor"/>
    <bpmn:participant id="SEM_SYMB_60" name="Customer"/>
    <bpmn:messageFlow targetRef="SEM_SYMB_35" id="SEM_SYMB_53" name="pizza order"
sourceRef="SEM_SYMB_11"/>
    <bpmn:messageFlow targetRef="SEM_SYMB_38" id="SEM_SYMB_54" name="query for pizza"
sourceRef="SEM_SYMB_15"/>
    <bpmn:messageFlow targetRef="SEM_SYMB_16" id="SEM_SYMB_55" name="patience"
sourceRef="SEM_SYMB_40"/>
    <bpmn:messageFlow targetRef="SEM_SYMB_24" id="SEM_SYMB_57" name="pizza"
sourceRef="SEM_SYMB_48"/>
    <bpmn:messageFlow targetRef="SEM_SYMB_48" id="SEM_SYMB_58" name="money"
sourceRef="SEM_SYMB_26"/>
    <bpmn:messageFlow targetRef="SEM_SYMB_27" id="SEM_SYMB_59" name="receipt"
sourceRef="SEM_SYMB_48"/>
    <bpmn:messageFlow targetRef="SEM_SYMB_60" id="SEM_SYMB_71" name="pizza"
sourceRef="SEM_SYMB_63"/>
    <bpmn:messageFlow targetRef="SEM_SYMB_64" id="SEM_SYMB_72" name="money"
sourceRef="SEM_SYMB_60"/>
    <bpmn:messageFlow targetRef="SEM_SYMB_60" id="SEM_SYMB_73" name="receipt"
sourceRef="SEM_SYMB_65"/>
  </bpmn:collaboration>
  <bpmn:process id="SEM_SYMB_4_f04a6565a0e766464843044cedf61f06">
    <bpmn:laneSet id="SEM_SYMB_5">
      <bpmn:lane id="SEM_SYMB_6" name="Clerk">
        <bpmn:flowNodeRef>SEM_SYMB_35</bpmn:flowNodeRef>
        <bpmn:flowNodeRef>SEM_SYMB_37</bpmn:flowNodeRef>
        <bpmn:flowNodeRef>SEM_SYMB_38</bpmn:flowNodeRef>
        <bpmn:flowNodeRef>SEM_SYMB_40</bpmn:flowNodeRef>
      </bpmn:lane>
      <bpmn:lane id="SEM_SYMB_7" name="Chef">
        <bpmn:flowNodeRef>SEM_SYMB_46</bpmn:flowNodeRef>
      </bpmn:lane>
      <bpmn:lane id="SEM_SYMB_8" name="Delivery Boy">
        <bpmn:flowNodeRef>SEM_SYMB_48</bpmn:flowNodeRef>
        <bpmn:flowNodeRef>SEM_SYMB_49</bpmn:flowNodeRef>
      </bpmn:lane>
    </bpmn:laneSet>
    <bpmn:startEvent id="SEM_SYMB_35" name="Order received">
      <bpmn:messageEventDefinition id="SEM_SYMB_36"/>
    </bpmn:startEvent>
    <bpmn:parallelGateway id="SEM_SYMB_37" name=""/>
    <bpmn:intermediateCatchEvent id="SEM_SYMB_38" name="Where is my pizza?">
      <bpmn:messageEventDefinition id="SEM_SYMB_39"/>
    </bpmn:intermediateCatchEvent>
```

```

    <bpmn:task name="Calm&#10;customer" id="SEM_SYMB_40"/>
    <bpmn:sequenceFlow targetRef="SEM_SYMB_37" id="SEM_SYMB_41" name=""
sourceRef="SEM_SYMB_35"/>
    <bpmn:sequenceFlow targetRef="SEM_SYMB_38" id="SEM_SYMB_42" name=""
sourceRef="SEM_SYMB_37"/>
    <bpmn:sequenceFlow targetRef="SEM_SYMB_40" id="SEM_SYMB_43" name=""
sourceRef="SEM_SYMB_38"/>
    <bpmn:sequenceFlow targetRef="SEM_SYMB_38" id="SEM_SYMB_45" name=""
sourceRef="SEM_SYMB_40"/>
    <bpmn:task name="Make the&#10;pizza" id="SEM_SYMB_46"/>
    <bpmn:sequenceFlow targetRef="SEM_SYMB_46" id="SEM_SYMB_47" name=""
sourceRef="SEM_SYMB_37"/>
    <bpmn:callActivity name="Deliver&#10;the pizza"
calledElement="SEM_SYMB_61_94d4f68e1c50ee510ee398c0d7417a91" id="SEM_SYMB_48"/>
    <bpmn:endEvent id="SEM_SYMB_49" name="">
    <bpmn:terminateEventDefinition id="SEM_SYMB_50"/>
    </bpmn:endEvent>
    <bpmn:sequenceFlow targetRef="SEM_SYMB_48" id="SEM_SYMB_51" name=""
sourceRef="SEM_SYMB_46"/>
    <bpmn:sequenceFlow targetRef="SEM_SYMB_49" id="SEM_SYMB_52" name=""
sourceRef="SEM_SYMB_48"/>
  </bpmn:process>
<bpmn:process id="SEM_SYMB_9_dbf346b4e2454e146518362d1a9922d7">
  <bpmn:startEvent id="SEM_SYMB_10" name="Hungry"/>
  <bpmn:task name="Order a&#10;pizza" id="SEM_SYMB_11"/>
  <bpmn:eventBasedGateway id="SEM_SYMB_12" name="">
  <bpmn:intermediateCatchEvent id="SEM_SYMB_13" name="30 minutes">
    <bpmn:timerEventDefinition id="SEM_SYMB_14"/>
  </bpmn:intermediateCatchEvent>
  <bpmn:task name="Ask for&#10;pizza" id="SEM_SYMB_15"/>
  <bpmn:intermediateCatchEvent id="SEM_SYMB_16" name="Pizza on its way">
    <bpmn:messageEventDefinition id="SEM_SYMB_17"/>
  </bpmn:intermediateCatchEvent>
  <bpmn:sequenceFlow targetRef="SEM_SYMB_11" id="SEM_SYMB_18" name=""
sourceRef="SEM_SYMB_10"/>
  <bpmn:sequenceFlow targetRef="SEM_SYMB_12" id="SEM_SYMB_19" name=""
sourceRef="SEM_SYMB_11"/>
  <bpmn:sequenceFlow targetRef="SEM_SYMB_13" id="SEM_SYMB_20" name=""
sourceRef="SEM_SYMB_12"/>
  <bpmn:sequenceFlow targetRef="SEM_SYMB_15" id="SEM_SYMB_21" name=""
sourceRef="SEM_SYMB_13"/>
  <bpmn:sequenceFlow targetRef="SEM_SYMB_16" id="SEM_SYMB_22" name=""
sourceRef="SEM_SYMB_15"/>
  <bpmn:sequenceFlow targetRef="SEM_SYMB_12" id="SEM_SYMB_23" name=""
sourceRef="SEM_SYMB_16"/>
  <bpmn:intermediateCatchEvent id="SEM_SYMB_24" name="Pizza received">
    <bpmn:messageEventDefinition id="SEM_SYMB_25"/>
  </bpmn:intermediateCatchEvent>
  <bpmn:task name="Pay the&#10;pizza" id="SEM_SYMB_26"/>
  <bpmn:task name="Get&#10;receipt" id="SEM_SYMB_27"/>
  <bpmn:task name="Eat the&#10;pizza" id="SEM_SYMB_28"/>
  <bpmn:endEvent id="SEM_SYMB_29" name="Satisfied"/>
  <bpmn:sequenceFlow targetRef="SEM_SYMB_24" id="SEM_SYMB_30" name=""
sourceRef="SEM_SYMB_12"/>
  <bpmn:sequenceFlow targetRef="SEM_SYMB_26" id="SEM_SYMB_31" name=""
sourceRef="SEM_SYMB_24"/>
  <bpmn:sequenceFlow targetRef="SEM_SYMB_27" id="SEM_SYMB_32" name=""
sourceRef="SEM_SYMB_26"/>

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```

    <bpmn:sequenceFlow targetRef="SEM_SYMB_28" id="SEM_SYMB_33" name=""
sourceRef="SEM_SYMB_27"/>
    <bpmn:sequenceFlow targetRef="SEM_SYMB_29" id="SEM_SYMB_34" name=""
sourceRef="SEM_SYMB_28"/>
  </bpmn:process>
  <bpmn:process id="SEM_SYMB_61_94d4f68e1c50ee510ee398c0d7417a91">
    <bpmn:startEvent id="SEM_SYMB_62" name=""/>
    <bpmn:task name="Get to&#10;customer" id="SEM_SYMB_63"/>
    <bpmn:task name="Get the&#10;money" id="SEM_SYMB_64"/>
    <bpmn:task name="Give the&#10;receipt" id="SEM_SYMB_65"/>
    <bpmn:endEvent id="SEM_SYMB_66" name=""/>
    <bpmn:sequenceFlow targetRef="SEM_SYMB_63" id="SEM_SYMB_67" name=""
sourceRef="SEM_SYMB_62"/>
    <bpmn:sequenceFlow targetRef="SEM_SYMB_64" id="SEM_SYMB_68" name=""
sourceRef="SEM_SYMB_63"/>
    <bpmn:sequenceFlow targetRef="SEM_SYMB_65" id="SEM_SYMB_69" name=""
sourceRef="SEM_SYMB_64"/>
    <bpmn:sequenceFlow targetRef="SEM_SYMB_66" id="SEM_SYMB_70" name=""
sourceRef="SEM_SYMB_65"/>
  </bpmn:process>
  <bpmn:process id="SEM_SYMB_76_fcd7c753a4f94aa2ef0c89237501d2fe">
    <bpmn:textAnnotation id="SEM_SYMB_77">
      <bpmn:text>Process for pizza order.
    </bpmn:text>
    </bpmn:process>
  </bpmn:textAnnotation>
  <bpmndi:BPMNDiagram name="main" id="DI_SYMB_1">
    <bpmndi:BPMNPlane bpmnElement="SEM_SYMB_1" id="DI_SYMB_2">
      <bpmndi:BPMNShape isHorizontal="true" bpmnElement="SEM_SYMB_2" id="DI_SYMB_3">
        <dc:Bounds y="20.0" x="20.0" width="1080.0" height="200.0"/>
      </bpmndi:BPMNShape>
      <bpmndi:BPMNShape isHorizontal="true" bpmnElement="SEM_SYMB_3" id="DI_SYMB_4">
        <dc:Bounds y="260.0" x="20.0" width="1080.0" height="480.0"/>
      </bpmndi:BPMNShape>
      <bpmndi:BPMNShape bpmnElement="SEM_SYMB_77" id="DI_SYMB_67">
        <dc:Bounds y="17.0" x="1153.0" width="394.0" height="166.0"/>
      </bpmndi:BPMNShape>
      <bpmndi:BPMNShape bpmnElement="SEM_SYMB_10" id="DI_SYMB_8">
        <dc:Bounds y="50.0" x="70.0" width="40.0" height="40.0"/>
      </bpmndi:BPMNShape>
      <bpmndi:BPMNShape bpmnElement="SEM_SYMB_11" id="DI_SYMB_9">
        <dc:Bounds y="40.0" x="160.0" width="60.0" height="60.0"/>
      </bpmndi:BPMNShape>
      <bpmndi:BPMNShape bpmnElement="SEM_SYMB_12" id="DI_SYMB_10">
        <dc:Bounds y="50.0" x="300.0" width="40.0" height="40.0"/>
      </bpmndi:BPMNShape>
      <bpmndi:BPMNShape bpmnElement="SEM_SYMB_13" id="DI_SYMB_11">
        <dc:Bounds y="120.0" x="360.0" width="40.0" height="40.0"/>
      </bpmndi:BPMNShape>
      <bpmndi:BPMNShape bpmnElement="SEM_SYMB_15" id="DI_SYMB_12">
        <dc:Bounds y="110.0" x="440.0" width="60.0" height="60.0"/>
      </bpmndi:BPMNShape>
      <bpmndi:BPMNShape bpmnElement="SEM_SYMB_16" id="DI_SYMB_13">
        <dc:Bounds y="120.0" x="550.0" width="40.0" height="40.0"/>
      </bpmndi:BPMNShape>
      <bpmndi:BPMNShape bpmnElement="SEM_SYMB_24" id="DI_SYMB_20">
        <dc:Bounds y="50.0" x="660.0" width="40.0" height="40.0"/>
      </bpmndi:BPMNShape>
      <bpmndi:BPMNShape bpmnElement="SEM_SYMB_26" id="DI_SYMB_21">

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    <dc:Bounds y="40.0" x="740.0" width="60.0" height="60.0"/>
  </bpmndi:BPMNShape>
  <bpmndi:BPMNShape bpmnElement="SEM_SYMB_27" id="DI_SYMB_22">
    <dc:Bounds y="40.0" x="840.0" width="60.0" height="60.0"/>
  </bpmndi:BPMNShape>
  <bpmndi:BPMNShape bpmnElement="SEM_SYMB_28" id="DI_SYMB_23">
    <dc:Bounds y="40.0" x="940.0" width="60.0" height="60.0"/>
  </bpmndi:BPMNShape>
  <bpmndi:BPMNShape bpmnElement="SEM_SYMB_29" id="DI_SYMB_24">
    <dc:Bounds y="50.0" x="1040.0" width="40.0" height="40.0"/>
  </bpmndi:BPMNShape>
  <bpmndi:BPMNShape isHorizontal="true" bpmnElement="SEM_SYMB_6" id="DI_SYMB_5">
    <dc:Bounds y="270.0" x="50.0" width="1040.0" height="180.0"/>
  </bpmndi:BPMNShape>
  <bpmndi:BPMNShape isHorizontal="true" bpmnElement="SEM_SYMB_7" id="DI_SYMB_6">
    <dc:Bounds y="460.0" x="50.0" width="1040.0" height="120.0"/>
  </bpmndi:BPMNShape>
  <bpmndi:BPMNShape isHorizontal="true" bpmnElement="SEM_SYMB_8" id="DI_SYMB_7">
    <dc:Bounds y="590.0" x="50.0" width="1040.0" height="140.0"/>
  </bpmndi:BPMNShape>
  <bpmndi:BPMNShape bpmnElement="SEM_SYMB_35" id="DI_SYMB_30">
    <dc:Bounds y="310.0" x="170.0" width="40.0" height="40.0"/>
  </bpmndi:BPMNShape>
  <bpmndi:BPMNShape bpmnElement="SEM_SYMB_37" id="DI_SYMB_31">
    <dc:Bounds y="310.0" x="310.0" width="40.0" height="40.0"/>
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  <bpmndi:BPMNShape bpmnElement="SEM_SYMB_38" id="DI_SYMB_32">
    <dc:Bounds y="310.0" x="440.0" width="40.0" height="40.0"/>
  </bpmndi:BPMNShape>
  <bpmndi:BPMNShape bpmnElement="SEM_SYMB_40" id="DI_SYMB_33">
    <dc:Bounds y="300.0" x="530.0" width="80.0" height="60.0"/>
  </bpmndi:BPMNShape>
  <bpmndi:BPMNShape bpmnElement="SEM_SYMB_46" id="DI_SYMB_39">
    <dc:Bounds y="485.0" x="430.0" width="90.0" height="68.0"/>
  </bpmndi:BPMNShape>
  <bpmndi:BPMNShape bpmnElement="SEM_SYMB_48" id="DI_SYMB_41">
    <dc:Bounds y="621.0" x="702.0" width="138.0" height="68.0"/>
  </bpmndi:BPMNShape>
  <bpmndi:BPMNShape bpmnElement="SEM_SYMB_49" id="DI_SYMB_42">
    <dc:Bounds y="636.0" x="888.0" width="40.0" height="40.0"/>
  </bpmndi:BPMNShape>
  <bpmndi:BPMNEdge bpmnElement="SEM_SYMB_18" id="DI_SYMB_14">
    <di:waypoint y="70.0" x="90.0"/>
    <di:waypoint y="70.0" x="190.0"/>
  </bpmndi:BPMNEdge>
  <bpmndi:BPMNEdge bpmnElement="SEM_SYMB_19" id="DI_SYMB_15">
    <di:waypoint y="70.0" x="190.0"/>
    <di:waypoint y="70.0" x="320.0"/>
  </bpmndi:BPMNEdge>
  <bpmndi:BPMNEdge bpmnElement="SEM_SYMB_20" id="DI_SYMB_16">
    <di:waypoint y="70.0" x="320.0"/>
    <di:waypoint y="140.0" x="320.0"/>
    <di:waypoint y="140.0" x="380.0"/>
  </bpmndi:BPMNEdge>
  <bpmndi:BPMNEdge bpmnElement="SEM_SYMB_21" id="DI_SYMB_17">
    <di:waypoint y="140.0" x="380.0"/>
    <di:waypoint y="140.0" x="470.0"/>
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  <di:waypoint y="140.0" x="570.0"/>
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<bpmndi:BPMNEdge bpmnElement="SEM_SYMB_23" id="DI_SYMB_19">
  <di:waypoint y="140.0" x="570.0"/>
  <di:waypoint y="140.0" x="640.0"/>
  <di:waypoint y="200.0" x="640.0"/>
  <di:waypoint y="200.0" x="260.0"/>
  <di:waypoint y="70.0" x="260.0"/>
  <di:waypoint y="70.0" x="320.0"/>
</bpmndi:BPMNEdge>
<bpmndi:BPMNEdge bpmnElement="SEM_SYMB_30" id="DI_SYMB_25">
  <di:waypoint y="70.0" x="320.0"/>
  <di:waypoint y="70.0" x="680.0"/>
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  <di:waypoint y="70.0" x="680.0"/>
  <di:waypoint y="70.0" x="770.0"/>
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  <di:waypoint y="70.0" x="770.0"/>
  <di:waypoint y="70.0" x="870.0"/>
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  <di:waypoint y="70.0" x="970.0"/>
</bpmndi:BPMNEdge>
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  <di:waypoint y="70.0" x="970.0"/>
  <di:waypoint y="70.0" x="1060.0"/>
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  <di:waypoint y="330.0" x="330.0"/>
  <di:waypoint y="330.0" x="460.0"/>
</bpmndi:BPMNEdge>
<bpmndi:BPMNEdge bpmnElement="SEM_SYMB_43" id="DI_SYMB_36">
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  <di:waypoint y="330.0" x="570.0"/>
</bpmndi:BPMNEdge>
<bpmndi:BPMNEdge bpmnElement="SEM_SYMB_45" id="DI_SYMB_38">
  <di:waypoint y="330.0" x="570.0"/>
  <di:waypoint y="330.0" x="650.0"/>
  <di:waypoint y="399.0" x="650.0"/>
  <di:waypoint y="399.0" x="378.0"/>
  <di:waypoint y="330.0" x="378.0"/>
  <di:waypoint y="330.0" x="460.0"/>
</bpmndi:BPMNEdge>
<bpmndi:BPMNEdge bpmnElement="SEM_SYMB_47" id="DI_SYMB_40">
  <di:waypoint y="330.0" x="330.0"/>
  <di:waypoint y="520.0" x="330.0"/>
  <di:waypoint y="519.0" x="475.0"/>
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<di:waypoint y="519.0" x="475.0"/>
<di:waypoint y="519.0" x="623.0"/>
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<di:waypoint y="654.0" x="771.0"/>
</bpmndi:BPMNEdge>
<bpmndi:BPMNEdge bpmnElement="SEM_SYMB_52" id="DI_SYMB_44">
  <di:waypoint y="655.0" x="771.0"/>
  <di:waypoint y="656.0" x="908.0"/>
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<bpmndi:BPMNEdge bpmnElement="SEM_SYMB_53" id="DI_SYMB_45">
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  <di:waypoint y="330.0" x="190.0"/>
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<bpmndi:BPMNEdge bpmnElement="SEM_SYMB_54" id="DI_SYMB_46">
  <di:waypoint y="140.0" x="470.0"/>
  <di:waypoint y="240.0" x="470.0"/>
  <di:waypoint y="240.0" x="460.0"/>
  <di:waypoint y="330.0" x="460.0"/>
</bpmndi:BPMNEdge>
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  <di:waypoint y="240.0" x="570.0"/>
  <di:waypoint y="242.0" x="570.0"/>
  <di:waypoint y="140.0" x="570.0"/>
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  <di:waypoint y="630.0" x="730.0"/>
  <di:waypoint y="350.0" x="730.0"/>
  <di:waypoint y="350.0" x="680.0"/>
  <di:waypoint y="70.0" x="680.0"/>
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<bpmndi:BPMNEdge bpmnElement="SEM_SYMB_58" id="DI_SYMB_50">
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  <di:waypoint y="655.0" x="771.0"/>
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<bpmndi:BPMNEdge bpmnElement="SEM_SYMB_59" id="DI_SYMB_51">
  <di:waypoint y="621.0" x="810.0"/>
  <di:waypoint y="350.0" x="810.0"/>
  <di:waypoint y="350.0" x="870.0"/>
  <di:waypoint y="70.0" x="870.0"/>
</bpmndi:BPMNEdge>
</bpmndi:BPMNPlane>
</bpmndi:BPMNDiagram>
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    <bpmndi:BPMNShape bpmnElement="SEM_SYMB_63" id="DI_SYMB_56">
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      <dc:Bounds y="286.0" x="290.0" width="80.0" height="68.0"/>
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  <di:waypoint y="320.0" x="330.0"/>
</bpmndi:BPMNEdge>
<bpmndi:BPMNEdge bpmnElement="SEM_SYMB_69" id="DI_SYMB_62">
  <di:waypoint y="320.0" x="330.0"/>
  <di:waypoint y="320.0" x="450.0"/>
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<bpmndi:BPMNEdge bpmnElement="SEM_SYMB_70" id="DI_SYMB_63">
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  <di:waypoint y="320.0" x="560.0"/>
</bpmndi:BPMNEdge>
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  <di:waypoint y="160.0" x="210.0"/>
</bpmndi:BPMNEdge>
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</bpmndi:BPMNEdge>
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modified="2022-10-13T10:47:14" version="1.0" id="SEM_SYMB_74" description="In this simulation scenario a
bike is used to deliver the pizza to the customers.">
        <bpsim:ScenarioParameters baseTimeUnit="min"
traceFormat="logs+critical_path_heatmap+resource_usage+resource_wait_time_heatmap"
baseCurrencyUnit="EUR" replication="100" seed="123456" traceOutput="true">
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</bpsim:ElementParameters>
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modified="2022-10-13T10:47:12" version="1.0" id="SEM_SYMB_75" description="In this simulation scenario a
car is used to deliver the pizza to the customers.">
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  </bpsim:TimeParameters>
  <bpsim:ResourceParameters>
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  </bpsim:ResourceParameters>
</bpsim:ElementParameters>
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  <bpsim:TimeParameters>
    <bpsim:ElapsedTime>
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      <bpsim:ResultRequest>mean</bpsim:ResultRequest>
    </bpsim:ElapsedTime>
  </bpsim:TimeParameters>
  <bpsim:CostParameters>
    <bpsim:UnitCost>
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    </bpsim:UnitCost>
  </bpsim:CostParameters>
</bpsim:ElementParameters>
</bpsim:Scenario>
</bpsim:BPSimData>
</bpmn:extensionElements>
<bpmn:source>SEM_SYMB_1</bpmn:source>
<bpmn:target>SEM_SYMB_1</bpmn:target>
</bpmn:relationship>
</bpmn:definitions>

```