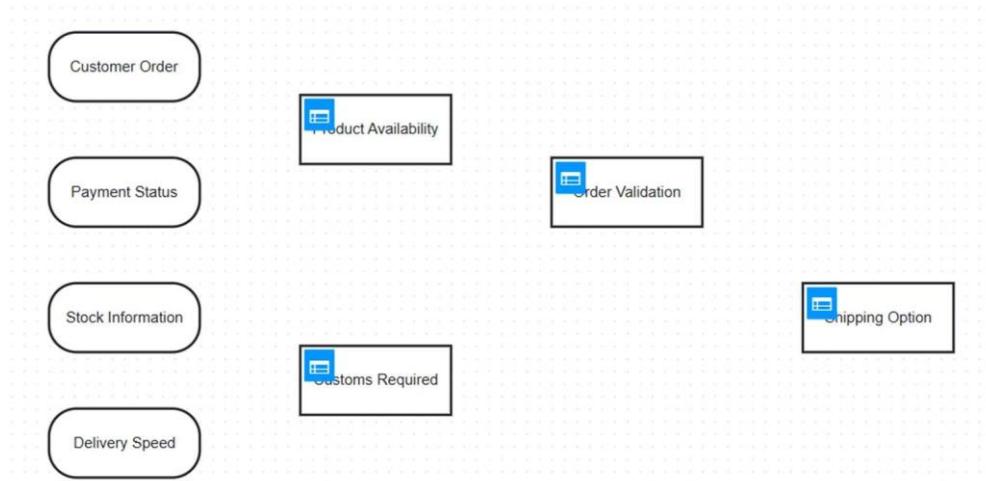


DeepSeek

DRD



Decision Tables

Product Availability					Hit policy: Unique
	When Requested Quantity number	⋮ Available Quantity number	Then Output boolean	Annotations	
1	<= Available Quantity	-	true		
2	> Available Quantity	-	false		
+	-	-			

Order Validation					Hit policy: Unique
	When Available boolean	And Payment Status string	Then Output boolean	Annotations	
1	true	"Valid"	true		
2	false	"Valid"	false		
3	true	"Invalid"	false		
4	false	"Invalid"	false		
+	-	-			

Customs Required		Hit policy:	Unique		
	When	Then		Annotations	
	Destination Country	Output			
	string	boolean			
1	"USA"	false			
2	"Germany", "Japan", "Canada"	true			
3	-	true			
+	-				

Shipping Option		Hit policy:	Unique		
	When	And	Then	Annotations	
	Valid Order	Customs	Delivery Speed	Output	
	boolean	boolean	string	string	
1	true	true	"Standard"	"Standard Shipment"	
2	true	true	"Express"	"Express Shipment"	
3	true	false	"Standard"	"Standard Shipment"	
4	true	false	"Express"	"Express Shipment"	
5	false	true	"Standard"	null	
6	false	true	"Express"	null	
7	false	false	"Standard"	null	
8	false	false	"Express"	null	
+	-	-	-	-	

XML

```
<?xml version="1.0" encoding="UTF-8"?>
<definitions xmlns="https://www.omg.org/spec/DMN/20191111/MODEL/"
  xmlns:dmndi="https://www.omg.org/spec/DMN/20191111/DMNDI/"
  xmlns:dc="http://www.omg.org/spec/DMN/20180521/DC/"
  xmlns:di="http://www.omg.org/spec/DMN/20180521/DI/" id="definitions"
  name="OnlineOrderFulfillment"
  namespace="http://camunda.org/schema/1.0/dmn">
```

```
<inputData id="OrderInput" name="Customer Order">
  <variable name="Order" typeRef="orderContext"/>
</inputData>
```

```
<inputData id="PaymentStatusInput" name="Payment Status">
  <variable name="PaymentStatus" typeRef="string"/>
</inputData>
```

```
<inputData id="StockInput" name="Stock Information">
```

```

<variable name="Stock" typeRef="stockContext"/>
</inputData>

<inputData id="DeliverySpeedInput" name="Delivery Speed">
<variable name="DeliverySpeed" typeRef="string"/> </inputData>

<decision id="ProductAvailability" name="Product Availability">
<variable name="Available" typeRef="boolean"/>
<informationRequirement>
<requiredInput href="#OrderInput"/>
</informationRequirement>
<informationRequirement>
<requiredInput href="#StockInput"/>
</informationRequirement>
<decisionTable id="dt1">
<input id="dt1i1" label="Requested Quantity">
<inputExpression typeRef="number">
<text>Order.RequestedQuantity</text>
</inputExpression>
</input>
<input id="dt1i2" label="Available Quantity">
<inputExpression typeRef="number">
<text>Stock.AvailableQuantity</text>
</inputExpression>
</input>
<output id="dt1o1" typeRef="boolean"/>
<rule id="dt1r1">
<inputEntry id="dt1r1i1">
<text>&lt;= Available Quantity</text>
</inputEntry>
<inputEntry id="dt1r1i2">
<text>-</text>
</inputEntry>
<outputEntry id="dt1r1o1">
<text>true</text>
</outputEntry>
</rule>
<rule id="dt1r2">
<inputEntry id="dt1r2i1">

```

```

<text>&gt; Available Quantity</text>
</inputEntry>
<inputEntry id="dt1r2i2">
<text>-</text>
</inputEntry>
<outputEntry id="dt1r2o1">
<text>false</text>
</outputEntry>
</rule>
</decisionTable>
</decision>

<decision id="OrderValidation" name="Order Validation">
<variable name="ValidOrder" typeRef="boolean"/>
<informationRequirement>
<requiredDecision href="#ProductAvailability"/>
</informationRequirement>
<informationRequirement>
<requiredInput href="#PaymentStatusInput"/>
</informationRequirement>
<decisionTable id="dt2">
<input id="dt2i1" label="Available">
<inputExpression typeRef="boolean">
<text>Available</text>
</inputExpression>
</input>
<input id="dt2i2" label="Payment Status">
<inputExpression typeRef="string">
<text>PaymentStatus</text>
</inputExpression>
</input>
<output id="dt2o1" typeRef="boolean"/>
<rule id="dt2r1">
<inputEntry id="dt2r1i1">
<text>true</text>
</inputEntry>
<inputEntry id="dt2r1i2">
<text>"Valid"</text>
</inputEntry>
<outputEntry id="dt2r1o1">

```

```

<text>true</text>
</outputEntry>
</rule>
<rule id="dt2r2">
<inputEntry id="dt2r2i1">
<text>false</text>
</inputEntry>
<inputEntry id="dt2r2i2">
<text>"Valid"</text>
</inputEntry>
<outputEntry id="dt2r2o1">
<text>false</text>
</outputEntry>
</rule>
<rule id="dt2r3">
<inputEntry id="dt2r3i1">
<text>true</text>
</inputEntry>
<inputEntry id="dt2r3i2">
<text>"Invalid"</text>
</inputEntry>
<outputEntry id="dt2r3o1">
<text>false</text>
</outputEntry>
</rule>
<rule id="dt2r4">
<inputEntry id="dt2r4i1">
<text>false</text>
</inputEntry>
<inputEntry id="dt2r4i2">
<text>"Invalid"</text>
</inputEntry>
<outputEntry id="dt2r4o1">
<text>false</text>
</outputEntry>
</rule>
</decisionTable>
</decision>

<decision id="CustomsRequired" name="Customs Required">

```

```

<variable name="Customs" typeRef="boolean"/>
<informationRequirement>
<requiredInput href="#OrderInput"/>
</informationRequirement>
<decisionTable id="dt3">
<input id="dt3i1" label="Destination Country">
<inputExpression typeRef="string">
<text>Order.DestinationCountry</text>
</inputExpression>
</input>
<output id="dt3o1" typeRef="boolean"/>
<rule id="dt3r1">
<inputEntry id="dt3r1i1">
<text>"USA"</text>
</inputEntry>
<outputEntry id="dt3r1o1">
<text>false</text>
</outputEntry>
</rule>
<rule id="dt3r2">
<inputEntry id="dt3r2i1">
<text>"Germany", "Japan", "Canada"</text>
</inputEntry>
<outputEntry id="dt3r2o1">
<text>true</text>
</outputEntry>
</rule>
<rule id="dt3r3">
<inputEntry id="dt3r3i1">
<text>-</text>
</inputEntry>
<outputEntry id="dt3r3o1">
<text>true</text>
</outputEntry>
</rule>
</decisionTable>
</decision>

<decision id="ShippingOption" name="Shipping Option">
<variable name="ShippingOption" typeRef="string"/>

```

```
<informationRequirement>
  <requiredDecision href="#OrderValidation"/>
</informationRequirement>
<informationRequirement>
  <requiredDecision href="#CustomsRequired"/>
</informationRequirement>
<informationRequirement>
  <requiredInput href="#DeliverySpeedInput"/>
</informationRequirement>
<decisionTable id="dt4">
  <input id="dt4i1" label="Valid Order">
    <inputExpression typeRef="boolean">
      <text>ValidOrder</text>
    </inputExpression>
  </input>
  <input id="dt4i2" label="Customs">
    <inputExpression typeRef="boolean">
      <text>Customs</text>
    </inputExpression>
  </input>
  <input id="dt4i3" label="Delivery Speed">
    <inputExpression typeRef="string">
      <text>DeliverySpeed</text>
    </inputExpression>
  </input>
  <output id="dt4o1" typeRef="string"/>
<rule id="dt4r1">
  <inputEntry id="dt4r1i1">
    <text>true</text>
  </inputEntry>
  <inputEntry id="dt4r1i2">
    <text>true</text>
  </inputEntry>
  <inputEntry id="dt4r1i3">
    <text>"Standard"</text>
  </inputEntry>
  <outputEntry id="dt4r1o1">
    <text>"Standard Shipment"</text>
  </outputEntry>
</rule>
```

```
<rule id="dt4r2">
  <inputEntry id="dt4r2i1">
    <text>true</text>
  </inputEntry>
  <inputEntry id="dt4r2i2">
    <text>true</text>
  </inputEntry>
  <inputEntry id="dt4r2i3">
    <text>"Express"</text>
  </inputEntry>
  <outputEntry id="dt4r2o1">
    <text>"Express Shipment"</text>
  </outputEntry>
</rule>
<rule id="dt4r3">
  <inputEntry id="dt4r3i1">
    <text>true</text>
  </inputEntry>
  <inputEntry id="dt4r3i2">
    <text>false</text>
  </inputEntry>
  <inputEntry id="dt4r3i3">
    <text>"Standard"</text>
  </inputEntry>
  <outputEntry id="dt4r3o1">
    <text>"Standard Shipment"</text>
  </outputEntry>  </rule>
<rule id="dt4r4">
  <inputEntry id="dt4r4i1">
    <text>true</text>
  </inputEntry>
  <inputEntry id="dt4r4i2">
    <text>false</text>
  </inputEntry>
  <inputEntry id="dt4r4i3">
    <text>"Express"</text>
  </inputEntry>
  <outputEntry id="dt4r4o1">
    <text>"Express Shipment"</text>
  </outputEntry>
```

```
</rule>

<rule id="dt4r5">
  <inputEntry id="dt4r5i1">
    <text>false</text>
  </inputEntry>
  <inputEntry id="dt4r5i2">
    <text>true</text>
  </inputEntry>
  <inputEntry id="dt4r5i3">
    <text>"Standard"</text>
  </inputEntry>
  <outputEntry id="dt4r5o1">
    <text>null</text>
  </outputEntry>
</rule>

<rule id="dt4r6">
  <inputEntry id="dt4r6i1">
    <text>false</text>
  </inputEntry>
  <inputEntry id="dt4r6i2">
    <text>true</text>
  </inputEntry>
  <inputEntry id="dt4r6i3">
    <text>"Express"</text>
  </inputEntry>
  <outputEntry id="dt4r6o1">
    <text>null</text>
  </outputEntry>
</rule>

<rule id="dt4r7">
  <inputEntry id="dt4r7i1">
    <text>false</text>
  </inputEntry>
  <inputEntry id="dt4r7i2">
    <text>false</text>
  </inputEntry>
  <inputEntry id="dt4r7i3">
    <text>"Standard"</text>
  </inputEntry>
  <outputEntry id="dt4r7o1">
```

```

<text>null</text>
</outputEntry>
</rule>
<rule id="dt4r8">
<inputEntry id="dt4r8i1">
<text>false</text>
</inputEntry>
<inputEntry id="dt4r8i2">
<text>false</text>
</inputEntry>
<inputEntry id="dt4r8i3">
<text>"Express"</text>
</inputEntry>
<outputEntry id="dt4r8o1">
<text>null</text>
</outputEntry>    </rule>
</decisionTable>
</decision>

<!-- DMN Diagram -->
<dmndi:DMNDI>
<dmndi:DMNDiagram>
<dmndi:DMNShape dmnElementRef="OrderInput">
<dc:Bounds height="55" width="120" x="100" y="100"/>
</dmndi:DMNShape>
<dmndi:DMNShape dmnElementRef="PaymentStatusInput">
<dc:Bounds height="55" width="120" x="100" y="200"/>
</dmndi:DMNShape>
<dmndi:DMNShape dmnElementRef="StockInput">
<dc:Bounds height="55" width="120" x="100" y="300"/>
</dmndi:DMNShape>
<dmndi:DMNShape dmnElementRef="DeliverySpeedInput">
<dc:Bounds height="55" width="120" x="100" y="400"/>
</dmndi:DMNShape>
<dmndi:DMNShape dmnElementRef="ProductAvailability">
<dc:Bounds height="55" width="120" x="300" y="150"/>
</dmndi:DMNShape>
<dmndi:DMNShape dmnElementRef="OrderValidation">
<dc:Bounds height="55" width="120" x="500" y="200"/>
</dmndi:DMNShape>

```

```
<dmndi:DMNShape dmnElementRef="CustomsRequired">
<dc:Bounds height="55" width="120" x="300" y="350"/>
</dmndi:DMNShape>
<dmndi:DMNShape dmnElementRef="ShippingOption">
<dc:Bounds height="55" width="120" x="700" y="300"/>
</dmndi:DMNShape>
</dmndi:DMNDiagram>
</dmndi:DMNDI>
</definitions>
```