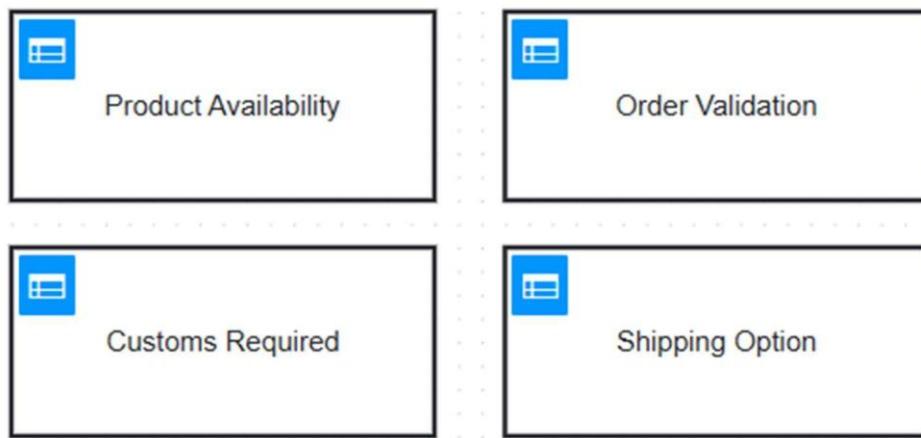


Perplexity

DRD



Decision Tables

Product Availability		Hit policy: Unique			
	When	And	Then	Annotations	
	order.requestedQuantity number	stock.availableQuantity number	Available boolean	+ true	
1	<= input2	-	true		
2	> input2	-	false		
+	-	-			

Order Validation		Hit policy: Unique			
	When	And	Then	Annotations	
	productAvailability.available boolean	paymentStatus.isPaymentValid boolean	Valid Order boolean	+ true	
1	true	true	true		
2	false	-	false		
3	true	false	false		
+	-	-			

Customs Required		Hit policy:	Unique		
	When	Then		Annotations	
	destination.isInternational boolean	Customs boolean			
1	true	true			
2	false	false			
+	-				

Shipping Option		Hit policy:	Unique		
	When	And	And	Then	Annotations
	orderValidation.validOrder boolean	customsRequired.customs boolean	deliverySpeed.speed string	Shipping Option string	
1	true	true	"Express"	"Express Shipment"	
2	true	true	"Standard"	"Standard Shipment"	
3	true	false	"Express"	"Express Shipment"	
4	true	false	"Standard"	"Standard Shipment"	
5	false	-	-	""	
+	-	-	-	-	

XML

```
<?xml version="1.0" encoding="UTF-8"?>

<definitions id="OnlineOrderFulfillment" name="Online Order Fulfillment"
namespace="http://example.com/onlineorder"
xmlns="https://www.omg.org/spec/DMN/20191111/MODEL/"
xmlns:dmndi="https://www.omg.org/spec/DMN/20191111/DMNDI/"
xmlns:di="http://www.omg.org/spec/DMN/20180521/DI/"
xmlns:dc="http://www.omg.org/spec/DMN/20180521/DC/">
```

```
<!-- Input Data -->
<inputData id="order" name="Order">
  <variable name="requestedQuantity" type="number"/>
</inputData>
```

```
<inputData id="stock" name="Stock">
  <variable name="availableQuantity" type="number"/>
</inputData>
```

```
<inputData id="paymentStatus" name="Payment Status">
  <variable name="isPaymentValid" type="boolean"/>
</inputData>
```

```

<inputData id="destination" name="Destination">
  <variable name="isInternational" type="boolean"/>
</inputData>

<inputData id="deliverySpeed" name="Delivery Speed">
  <variable name="speed" type="string"/>
</inputData>

<!-- Decision: Product Availability -->
<decision id="productAvailability" name="Product Availability">  <variable name="available" type="boolean"/>
  <decisionTable id="productAvailabilityTable" hitPolicy="UNIQUE">
    <input id="input1">
      <inputExpression id="inputExpression1" typeRef="number">
        <text>order.requestedQuantity</text>
      </inputExpression>
    </input>
    <input id="input2">
      <inputExpression id="inputExpression2" typeRef="number">
        <text>stock.availableQuantity</text>
      </inputExpression>
    </input>
    <output id="output1" name="Available" typeRef="boolean"/>
    <rule>
      <inputEntry id="inputEntry1"><text>&lt;= input2</text></inputEntry>
      <inputEntry id="inputEntry2"><text>-</text></inputEntry>
      <outputEntry id="outputEntry1"><text>true</text></outputEntry>
    </rule>
    <rule>
      <inputEntry id="inputEntry2b"><text>&gt; input2</text></inputEntry>
      <inputEntry id="inputEntry2b2"><text>-</text></inputEntry>
      <outputEntry id="outputEntry2"><text>false</text></outputEntry>
    </rule>
  </decisionTable>
</decision>

<!-- Decision: Order Validation -->
<decision id="orderValidation" name="Order Validation">
  <variable name="validOrder" type="boolean"/>

```

```

<decisionTable id="orderValidationTable" hitPolicy="UNIQUE">
    <input id="input3">
        <inputExpression id="inputExpression3" typeRef="boolean">
            <text>productAvailability.available</text>
        </inputExpression>
    </input>
    <input id="input4">
        <inputExpression id="inputExpression4" typeRef="boolean">
            <text>paymentStatus.isPaymentValid</text>
        </inputExpression>
    </input>
    <output id="output2" name="Valid Order" typeRef="boolean"/>      <rule>
        <inputEntry id="inputEntry3"><text>true</text></inputEntry>
        <inputEntry id="inputEntry4"><text>true</text></inputEntry>
        <outputEntry id="outputEntry3"><text>true</text></outputEntry>
    </rule>
    <rule>
        <inputEntry id="inputEntry5"><text>false</text></inputEntry>      <inputEntry
        id="inputEntry6"><text>-</text></inputEntry>
        <outputEntry id="outputEntry4"><text>false</text></outputEntry>
    </rule>
    <rule>
        <inputEntry id="inputEntry7"><text>true</text></inputEntry>
        <inputEntry id="inputEntry8"><text>false</text></inputEntry>
        <outputEntry id="outputEntry5"><text>false</text></outputEntry>
    </rule>
</decisionTable>
</decision>

```

```

<!-- Decision: Customs Required -->
<decision id="customsRequired" name="Customs Required">
    <variable name="customs" type="boolean"/>
    <decisionTable id="customsRequiredTable" hitPolicy="UNIQUE">
        <input id="input5">
            <inputExpression id="inputExpression5" typeRef="boolean">
                <text>destination.isInternational</text>
            </inputExpression>
        </input>
        <output id="output3" name="Customs" typeRef="boolean"/>
    </rule>

```

```

<inputEntry id="inputEntry9"><text>true</text></inputEntry>
<outputEntry id="outputEntry6"><text>true</text></outputEntry>
</rule>
<rule>
<inputEntry id="inputEntry10"><text>false</text></inputEntry>
<outputEntry id="outputEntry7"><text>false</text></outputEntry>
</rule>
</decisionTable>
</decision>

```

```

<!-- Decision: Shipping Option -->
<decision id="shippingOption" name="Shipping Option">
<variable name="shippingOption" type="string"/>
<decisionTable id="shippingOptionTable" hitPolicy="UNIQUE">
<input id="input6">
<inputExpression id="inputExpression6" typeRef="boolean">
<text>orderValidation.validOrder</text>
</inputExpression>
</input>
<input id="input7">
<inputExpression id="inputExpression7" typeRef="boolean">
<text>customsRequired.customs</text>
</inputExpression>
</input>
<input id="input8">
<inputExpression id="inputExpression8" typeRef="string">
<text>deliverySpeed.speed</text>
</inputExpression>
</input>
<output id="output4" name="Shipping Option" typeRef="string"/>
</rule>
<inputEntry id="inputEntry11"><text>true</text></inputEntry>
<inputEntry id="inputEntry12"><text>true</text></inputEntry>
<inputEntry id="inputEntry13"><text>"Express"</text></inputEntry>
<outputEntry id="outputEntry8"><text>"Express
Shipment"</text></outputEntry>
</rule>
<rule>
<inputEntry id="inputEntry14"><text>true</text></inputEntry>

```

```
<inputEntry id="inputEntry15"><text>true</text></inputEntry>
<inputEntry id="inputEntry16"><text>"Standard"</text></inputEntry>
<outputEntry id="outputEntry9"><text>"Standard
Shipment"</text></outputEntry>
</rule>
<rule>
<inputEntry id="inputEntry17"><text>true</text></inputEntry>
<inputEntry id="inputEntry18"><text>false</text></inputEntry>
<inputEntry id="inputEntry19"><text>"Express"</text></inputEntry>
<outputEntry id="outputEntry10"><text>"Express
Shipment"</text></outputEntry>
</rule>
<rule>
<inputEntry id="inputEntry20"><text>true</text></inputEntry>
<inputEntry id="inputEntry21"><text>false</text></inputEntry>
<inputEntry id="inputEntry22"><text>"Standard"</text></inputEntry>
<outputEntry id="outputEntry11"><text>"Standard
Shipment"</text></outputEntry>
</rule>
<rule>
<inputEntry id="inputEntry23"><text>false</text></inputEntry>
<inputEntry id="inputEntry24"><text>-</text></inputEntry>
<inputEntry id="inputEntry25"><text>-</text></inputEntry>
<outputEntry id="outputEntry12"><text>""</text></outputEntry>
</rule>
</decisionTable>
</decision>
</definitions>
```