

jUCMNav Report



<http://softwareengineering.ca/jucmnav>

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|-------------------------|--|
| Title: | ordering7 |
| URN Model Name: | URNspec |
| Description: | |
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| Specification Version: | 138 |

UCM Scenario Groups documentation

- Simple Manual Process:

1. 2 - Normal order
2. 1 - Can't find product
3. 5 - Cancel whole order because of backorder
4. 3 - Backordered with patient customer
5. 6 - Infinite loop: wait but never arrives
6. 4 - Backordered items are cancelled

Variables

1. IsProductAvailable (boolean)
2. OrderToProcess (boolean)
3. UserDecision (Enum MissingProductDecision)
4. IsWarehouseOutOfStock (boolean)
5. ReceivedMissingProduct (boolean)
6. IsCustomerPatient (boolean)
7. IsArrivingSoon (boolean)
8. ProductShipped (boolean)
9. OrderedProductCount (integer)

Enumeration Types

1. MissingProductDecision: CANCEL, CANCELMISSING, WAIT

WaitForOrder

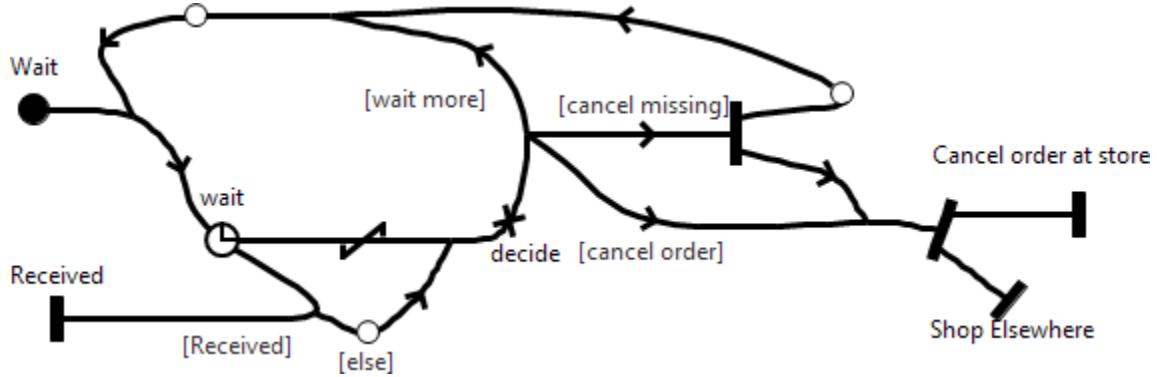


Figure 1 - WaitForOrder

Responsibilities

decide

Expression

if (!IsCustomerPatient)

UserDecision=Cancel;

else if (!IsArrivingSoon)

UserDecision=CancelMissing;

else

UserDecision=Wait;

Or Fork Description

[wait more] ==> UserDecision==Wait (probability: 1.0)

[cancel order] ==> UserDecision==Cancel (probability: 1.0)

[cancel missing] ==> UserDecision==CancelMissing (probability: 1.0)

[Received] ==> ProductShipped (probability: 1.0)

[else] ==> !ProductShipped (probability: 1.0)

Order

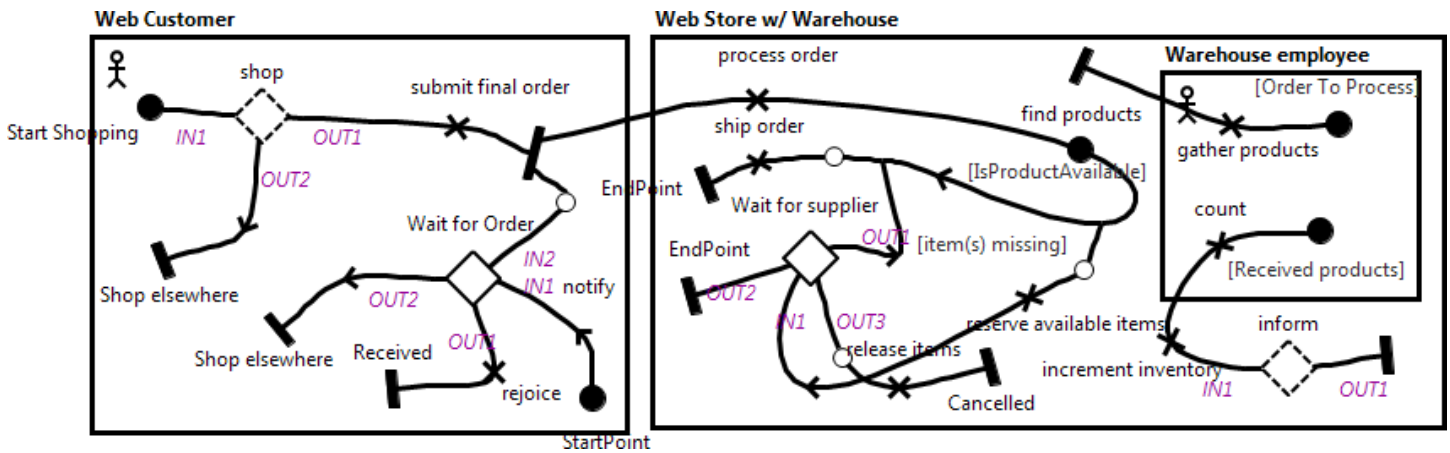


Figure 2 - Order

Responsibilities

submit final order

process order

Expression

OrderToProcess=true;

ProductShipped=false;

ship order

Expression: ProductShipped=true;

count

increment inventory

Expression

IsWarehouseOutOfStock=!ReceivedMissingProduct;

IsProductAvailable=ReceivedMissingProduct;

reserve available items

gather products

Expression: IsProductAvailable=!IsWarehouseOutOfStock;

release items

rejoice

Stubs

Dynamic Stub - inform

Static Stub - Wait for Order

Plugin Map - WaitForOrder

Input Bindings:

IN 1 <-> Wait

Output Bindings:

OUT 1 <-> Received

OUT 2 <-> Shop Elsewhere

Precondition:

Expression: true

Transaction: false

Probability: 1.0

Static Stub - Wait for supplier

Plugin Map - Backordered

Input Bindings:

IN 1 <-> Back Ordered

Output Bindings:

OUT 1 <-> Ship Order

OUT 2 <-> notify user of delays

OUT 3 <-> Cancelled

Precondition:

Expression: true

Transaction: false

Probability: 1.0

Dynamic Stub - shop

Plugin Map - Shop

Input Bindings:

IN 1 <-> Shop

Output Bindings:

OUT 1 <-> Product Available

OUT 2 <-> Product not available

Precondition:

Expression: true

Transaction: false

Probability: 1.0

Or Fork Description

[IsProductAvailable] ==> IsProductAvailable (probability: 1.0)

[item(s) missing] ==> !IsProductAvailable (probability: 1.0)

Start Point

Product reception

Precondition [Received products] ==> true

Order to process

Precondition [Order To Process] ==> OrderToProcess

Shop

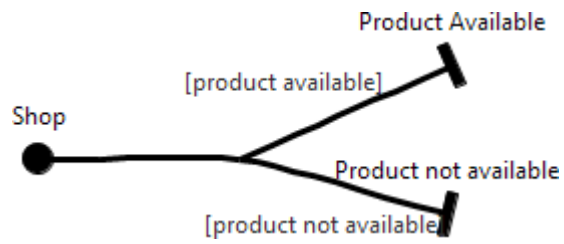


Figure 3 - Shop

Or Fork Description

[product not available] ==> !IsProductAvailable (probability: 1.0)

[product available] ==> IsProductAvailable (probability: 1.0)

Scenario Documentation

Scenario Execution Summary

Group Simple Manual Process (ID:5)

| Scenario | Result | Message(s) |
|---|--------|--|
| 2 - Normal order (ID: 6) | FAILED | Traversal blocked on ucm.map.impl.WaitingPlacImpl@5a3e165f (name: find products) (id: 773, description: null) (x: 653, y: 119) (waitType: Transient) |
| 1 - Can't find product (ID: 502) | FAILED | Traversal blocked on ucm.map.impl.StartPointImpl@53e077cb (name: Order to process) (id: 199, description: null) (x: 806, y: 104) (local: false, failureKind: None) |
| 5 - Cancel whole order because of backorder (ID: 505) | FAILED | Traversal blocked on ucm.map.impl.WaitingPlacImpl@5a3e165f (name: find products) (id: 773, description: null) (x: 653, y: 119) (waitType: Transient) |
| 3 - Backordered with patient customer (ID: 523) | FAILED | No plugin bindings for Stub "inform (842)": using default plugin |
| | | Infinite loop detected on ucm.map.impl.TimerImpl@4b9e952f (name: wait) (id: 1012, description: null) (x: 175, y: 213) (waitType: Transient) |
| | | Infinite loop detected on ucm.map.impl.WaitingPlacImpl@5a3e165f (name: find products) (id: 773, description: null) (x: 653, y: 119) (waitType: Transient) |
| 6 - Infinite loop: wait but never arrives (ID: 525) | FAILED | No plugin bindings for Stub "inform (842)": using default plugin |
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| | | Infinite loop detected on ucm.map.impl.TimerImpl@4b9e952f (name: wait) (id: 1012, description: null) (x: 175, y: 213) (waitType: Transient) |
| | | Infinite loop detected on ucm.map.impl.WaitingPlaceImpl@5a3e165f (name: find products) (id: 773, description: null) (x: 653, y: 119) (waitType: Transient) |
| 4 - Backordered items are cancelled (ID: 2343) | FAILED | Infinite loop detected on ucm.map.impl.TimerImpl@4b9e952f (name: wait) (id: 1012, description: null) (x: 175, y: 213) (waitType: Transient) |
| | | Infinite loop detected on ucm.map.impl.WaitingPlaceImpl@5a3e165f (name: find products) (id: 773, description: null) (x: 653, y: 119) (waitType: Transient) |

Scenario Information

Group Simple Manual Process (ID: 5)

Scenario 2 - Normal order (ID: 6)

Scenario Start Point(s):

Start Shopping (ID: 8)

Order to process (ID: 199)

Initialization(s):

| Variable Name | ID | Description | Type | Initial Value |
|-----------------------|------|-------------|---------|---------------|
| IsProductAvailable | 48 | | boolean | true |
| OrderToProcess | 217 | | boolean | false |
| IsWarehouseOutOfStock | 506 | | boolean | false |
| IsCustomerPatient | 1321 | | boolean | false |

Scenario 1 - Can't find product (ID: 502)

Included UCM Scenario(s):

Scenario 2 - Normal order (ID: 6)

Initialization(s):

| Variable Name | ID | Description | Type | Initial Value |
|--------------------|----|-------------|---------|---------------|
| IsProductAvailable | 48 | | boolean | false |

Scenario 5 - Cancel whole order because of backorder (ID: 505)

Included UCM Scenario(s):

Scenario 2 - Normal order (ID: 6)

Initialization(s):

| Variable Name | ID | Description | Type | Initial Value |
|-----------------------|-----|-------------|-------------|---------------|
| UserDecision | 296 | | enumeration | CANCEL |
| IsWarehouseOutOfStock | 506 | | boolean | true |

Scenario 3 - Backordered with patient customer (ID: 523)

Included UCM Scenario(s):

Scenario 2 - Normal order (ID: 6)

Scenario Start Point(s):

Product reception (ID: 423)

Initialization(s):

| Variable Name | ID | Description | Type | Initial Value |
|------------------------|------|-------------|-------------|---------------|
| IsWarehouseOutOfStock | 506 | | boolean | true |
| UserDecision | 296 | | enumeration | WAIT |
| ReceivedMissingProduct | 524 | | boolean | true |
| IsCustomerPatient | 1321 | | boolean | true |
| IsArrivingSoon | 1330 | | boolean | true |

Scenario 6 - Infinite loop: wait but never arrives (ID: 525)

Included UCM Scenario(s):

Scenario 3 - Backordered with patient customer (ID: 523)

Initialization(s):

| Variable Name | ID | Description | Type | Initial Value |
|------------------------|-----|-------------|---------|---------------|
| ReceivedMissingProduct | 524 | | boolean | false |

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|-------------------|------|--|---------|------|
| IsCustomerPatient | 1321 | | boolean | true |
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Scenario 4 - Backordered items are cancelled (ID: 2343)

Included UCM Scenario(s):

Scenario 2 - Normal order (ID: 6)

Initialization(s):

| Variable Name | ID | Description | Type | Initial Value |
|-----------------------|------|-------------|-------------|---------------|
| UserDecision | 296 | | enumeration | CANCEL |
| IsWarehouseOutOfStock | 506 | | boolean | true |
| IsCustomerPatient | 1321 | | boolean | true |
| IsArrivingSoon | 1330 | | boolean | false |