**Confirming Details After Checkout Cart:** (Payment Method Page with delivery timelines)

**Description**: When user confirm Delivery address and move to next page

**Action**: API call to get Payment Methods from payment-service, API call to validate cart item with Inventory service, API call to get saved payment method from Customer API

**API** : get Payment Methods API payment-service, verify inventory for inventory-service

**MS** **Involved**: payment-service, inventory-service

**Events**: No Events

**Payment** **Initiated** (Create Order):

**Description**: When user has entered payment details and will be redirected to payment gateway page for verification

**API**: /create-order

|  |
| --- |
| Request Payload:  detailedProductInfo:{productList:{skuId, quantity}}  ~~detailedPaymentInfo:{ paymentMethod{ paymentSourceDetails{} }}~~  detailedCustomerInfo:{customerId, addressId }  Response Payload:  OrderInfo: {orderInfo:{orderId,orderStatus->In-progress}}  PaymentInfo:{paymentId} |
|  |

/order-payment-response -> /process-payment

|  |
| --- |
| Request Payload:  paymentId, orderId  Response Payload:  paymentStatus -> generates event to UpdateEvent for Order updation from in-progress to complete |

**Event**: PaymentInitated (save details of the payment initiated and generate an event for order In-progress)-> OrderPlacedEvent-> CartCleanup

**MS** **Involved**: Cart-service (Cleanup), order-service (InProgress),payment-service(InProgress)

**Payment Success Update:**

**Event**: PaymentSuccess, ~~OrderCompleted~~, InventoryDeduction, ShippingCreation(Will be fired from Order-service)

**API**: No API Calls

**MS Involved**: ) payment-service(completed status save)-> PaymentSuccess ->[inventory-service(deduction)] ~ [shipping-service(created)] ~ [order-service (completed)] (parallel events)

**Payment Failure Update: same as above**

**Event**: Payment Failed ,- OrderCancelled API-> PaymentRefund, InventoryRestore

**MS Involved:** order-service (Failed),payment-service(Failed),inventory-service(deduction),shipping-service(created)

Order Cancelled API->Payment Refund

**API**: No API Calls