UC1 Cos :

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| --- | --- |
| Contract CO1: startOrder | |
| **Operation** | startOrder() |
| **Cross References** | Use Case : Placing order |
| **Preconditions** | none |
| **Postconditions** | * An Order instance was created with name (o). * (o) was associated with the currently logged in customer instance. |

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| --- | --- |
| Contract CO2: selectFood | |
| **Operation** | selctFood(food\_id, count) |
| **Cross References** | Use Case : Placing order |
| **Preconditions** | There is an order underway. |
| **Postconditions** | * A FoodLineItem instance was created with name (fli). * (fli) was associated with the current order. * (fli) was associated with Food, based on food\_id match. * (fli.count) became count (which came from parameters) |

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| Contract CO3: endOrder | |
| **Operation** | endOrder() |
| **Cross References** | Use Case : Placing order |
| **Preconditions** | There is an order underway. |
| **Postconditions** | * The current underway order item’s isCompleted attribute became true. |

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| Contract CO4: submitOrder | |
| **Operation** | submitOrder () |
| **Cross References** | Use Case : Placing order |
| **Preconditions** | There is an order underway. |
| **Postconditions** | * The current underway order item’s isSubmitted attribute became true. |

UC2: Ops

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| --- | --- |
| Contract CO1: startPayment | |
| **Operation** | startPayment() |
| **Cross References** | Use Case : Process Payment |
| **Preconditions** | none |
| **Postconditions** | * A Payment instance was created with name (p). |

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| --- | --- |
| Contract CO2: selectOrder | |
| **Operation** | selectOrder(order\_id, tip\_amount) |
| **Cross References** | Use Case : Process Payment |
| **Preconditions** | There is payment underway with name (p) |
| **Postconditions** | * The current payment was associated with order instance, based on order\_id * p.tip\_amount attribute became equals to tip\_amount (parameter) |

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| --- | --- |
| Contract CO3: makePayment | |
| **Operation** | makePayment() |
| **Cross References** | Use Case : Process Payment |
| **Preconditions** | There is payment underway with name (p) |
| **Postconditions** | * p.isCompleted became true * the current order attached to the payment p became associated with the Ledger instance. |

UC3 : COs

|  |  |
| --- | --- |
| Contract CO1: updateOrder | |
| **Operation** | makePayment() |
| **Cross References** | Use Case : Process Payment |
| **Preconditions** | None |
| **Postconditions** | None |

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| --- | --- |
| Contract CO2: markOrderAsFinished | |
| **Operation** | markOrderAsFinished(orderId) |
| **Cross References** | Use Case : Process Payment |
| **Preconditions** | None |
| **Postconditions** | * The order instance (o) that has o.id equals to oderId is updated so o.Status became “Finished” |