**Supplementary Requirement Release 2**

1. SEC - Security Requirements

**Scope:**

* 05.08 Checkout order

**Requirements:**

* Sensitive data sent should be hashed for data transit
* The actor’s input must be sanitized

**Conditions to Apply:** After the respective join points.

2. FV - Field Validation Requirements

2.1 - Field “Driver Instructions”

**Scope:**

* 05.02 Manage Orders
* 05.08 Checkout Order

**Requirements:**

* Field size is no more than 200 characters
* Field is optional

**Conditions to Apply:** After the respective join points.

2.2 - Field “Delivery Address”

**Scope:**

* 05.02 Manage Orders
* 05.08 Checkout Order

**Requirements:**

* Field size is no more than 200 characters
* Field is mandatory, System will not allow it to proceed without a valid delivery address.

**Conditions to Apply:** After the respective join points.

2.3 - Field “Promo Code”

**Scope:**

* 05.02 Manage Orders
* 05.08 Checkout Order

**Requirements:**

* Field size is 10 characters.
* Field will not accept text less than or greater than 10 characters.
* Field is optional.

**Conditions to Apply:** After the respective join points.

3. CL - Calculations

**Scope:**

* 05.02 Manage Orders
* 05.07 Generate receipts
* 05.08 Checkout order

**Requirements:**

* The price of each item in the order should be calculated and reflected on the receipt properly
* Formula for Manage Orders Calculation: **Total = (itemcost1 \* quantity1) + (itemcost2 \* quantity2) + (itemcost3 \* quantity3),...)**
* Formula for Checkout Order Calculation: **Order** **Total = (itemcost1 \* quantity1) + (itemcost2 \* quantity2) + (itemcost3 \* quantity3),...) + Total Tax**

**Conditions to Apply:** After the respective join points.

4. CN - Connectivity

**Scope:**

* 05.02 Manage Orders
* 05.03 Cancel Order
* 05.07 Generate receipts
* 05.08 Checkout order

**Requirements:**

* System should retain caches to populate values, if the front-end is disconnected due to Network issue, or some error.
* System should also show a popup window with an error message, “Connection failed, please try again later”.

**Conditions to Apply:** After the respective join points.

5. DF-In - Data Flow In

**Scope:**

* 05.07 Generate receipts
* 05.08 Checkout order

**Requirements:**

* After the order has been placed, the data of the order should flow into Checkout Order Core feature
* Generate receipt should acquire data from the process payment core feature.

**Conditions to Apply:** After the respective join points.

6. DF-Out - Data Flow Out

**Scope:**

* 05.02 Manage Orders
* 05.03 Cancel order
* 05.08 Checkout order

**Requirements:**

* After the user has managed the order, the respective changes of managing the order should flow to the database.
* After the user cancels the order, the data of the cancelled order should flow to the database.
* After the system checks out the order, the data of the order should flow to the database.

**Conditions to Apply:** After the respective join points.

7. CA - Cache

**Scope:**

* 05.02 Manage Orders
* 05.03 Cancel Order
* 05.08 Checkout order

**Requirements:**

* The actor’s order information and payment information should be saved in cache

**Conditions to Apply:** After the respective join points.

8. ExH - Exception Handling

**Scope:**

* 05.02 Manage Orders
* 05.03 Cancel Order
* 05.07 Generate receipts
* 05.08 Checkout order

**Requirements:**

* If the system is not able to manage the order i.e make edits to the order due to missing fields, or connectivity issues, it should generate an error message and it should be shown in the command prompt.
* If the system is not able to cancel the order due to connectivity issue, the system must display an error message saying - ‘Order not cancelled’ and this error message should be shown in the command prompt.
* If the system can not generate the receipt, an error message should be shown in the command prompt.
* If the system cannot check out the order, an exception should be thrown to the command prompt.

**Conditions to Apply:** After the respective join points.