FFD – Test scenarios

In the following scenarios we assume that there are 3 stores (numbered 1,2,3). The map, hence, is divided into three regions.

Please, check if you have all cases and alerts implemented in your system, if not, please, specify it in your feedback. If there are parts in the scenarios that you cannot run in your implementation, mention the part and the reason you couldn't run it in your feedback.

There are three scenarios listed below.

Scenario 1 (normal flow):

Pre-conditions:

- Drivers A,B,C are in region 1.
- Driver A had no delivery alerts during previous 19 deliveries.

00:00 Store 1 receives an order (System receives "delivery request" event).

00:01 System matches drivers A,B,C by location and ranking.

00:02 Bid request is sent to drivers A,B,C.

00:03 Drivers A,B,C respond with "delivery bid", provide their current location and commit a pick-up time.

00:04 Driver A is chosen in automatic process by the store.

00:05 Assignment is sent to driver A. The pick-up time and the delivery time is set.

00:10 A arrives to the store to pick-up the delivery. The store provides pick-up confirmation.

00:15 A delivers the flowers to the customer. Delivery confirmation is provided.

00:16 Rank of A is increased by one.

Scenario 2 (No response from the store + F is late for pickup + F is late for delivery)

Pre-conditions:

- Drivers E,F,G,H,I,J,K are in region 3
- Driver F had 10 delivery alerts during previous 19 deliveries.

00:00 Store 3 receives an order (System receives "delivery request" event).

00:01 System matches drivers F,G,H,I,J,K by location and ranking (Driver E is filtered out due to his low rating).

00:02 Bid request is sent to drivers F,G,H,I,J,K .

00:03 Drivers F,G,H,I,J,K respond with "delivery bid", provide their current location and commit a pick-up time.

00:03-00:05.Store doesn't perform manual assignment (Alert is sent both to the store and the system manager).

00:06 Driver F is chosen by the store (manual assignment is finally performed after a 3 minute delay). Assignment is sent to driver F. Pick-up time and delivery time is set.

00:10 Driver F arrives to the store while exceeding pick-up time by 6 minutes (Pick-Up Alert expected). Pick-up confirmation is set.

00:25 F delivers the flowers to the customer while exceeding delivery time by 10 minutes (Delivery Alert expected). Delivery confirmation is provided.

00:31 Rank of F is decreased by one.

Scenario 3 (no bidders)

Pre-conditions:

- Drivers E,F are in region 3.

00:00 Store 3 receives an order (System receives "delivery request" event).

00:01 System matches drivers E,F by location and ranking.

00:02 Bid request is sent to drivers E,F.

00:04-infinity E,F do not respond with "delivery bid" (Alert is sent both to the store and the system manager).