# Use Case Scenario – Robot giving order to client

|  |  |
| --- | --- |
| Use Case 1 | Robot giving order to client |
| Actors | Bartender, robot, client |
| Use Case Overview | When a client makes an order. The robot must deliver the clients order from the bar without spilling it. |
| Subject Area | Bar, Café |
| Trigger 1 | There is an order |
| Precondition | There is an active order waiting |
| Post condition | The order is delivered to the client |

## Basic Flow: Giving the order

|  |  |
| --- | --- |
| Description | This scenario describes how the robot gets an order to the client and returns. |
| 1 | Client orders |
| 2 | Robot gets order from bartender |
| 3 | Robot delivers order to client |
| 4 | Client takes order |
| 5 | Robot sends status update of order to server |
| 6 | Robot returns to idle position |

## Alternative flows

### Alternative Flow 3A: Robot has multiple orders

|  |  |
| --- | --- |
| Description | This scenario describes how the robot handles bringing multiple orders to multiple tables. |
| 3A1 | Robot opens hatch enough for first order |
| 3A2 | Client takes order |
| 3A3 | Robot goes to next table |
| 3A4 | Robot opens hatch for next order |
| 3A5 | Other client takes order |
| 3A6 | Repeat 3A3, 3A4, 3A5 till all orders have been delivered |
| 3A7 | Robot returns to idle position |
| Termination outcome (post condition or return to basic flow condition) | Robot delivers each order one-by-one to the clients defined by the bartender |

### Alternative Flow 3A: Robot is out of space for order

|  |  |
| --- | --- |
| Description | This scenario describes how the robot handles bringing an order which cannot be delivered in one go. |
| 3B1 | Robot delivers part of the order to client |
| 3B2 | Robot notifies client the whole order is not complete |
| 3B3 | Robot goes back to get the remaining of the order from the bartender |
| 3B4 | Repeat 3B1, 3B2, 3B3 until the last order is delivered |
| 3B5 | Robot returns to idle position |
| Termination outcome (post condition or return to basic flow condition) | Robot delivers the order with as many courses it will require. |

Use Case Flow – Robot giving order to client

