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| Actor | Goal | UCName | REQ## |
| Clerk | Clerk decides whether receiving order or not | C-UC1(Accept order) | 54 |
| Clerk | Clerk changes the status of order from “order accepted” to “cook completed”. | C-UC2(Complete Cook) | 55 |
| Clerk | In emergency senario, clerk refuses the order. | C-UC3(Handle emergency) | 56 |
| Delivery man | After “cook completed”, delivery man receives it and start delivery or serving. | C-UC4(Start Delivery) | 57 |
| Delivery man | When delivery is completed, delivery man changes the status from ”delivering” to “delivery completed”. | C-UC5(Complete Delivery) | 58 |
| Order Tracker | Older Tracker keeps updating the last status of order. | C-UC6(Track order) | 59 |
| Orderer | Remove user’s data from the device.  Or Prepare to login with another user. | C-UC7(Logout) | 60 |
| Orderer | The orderer wants to access without privileges.  The authenticator wants to block the orderer. | C-UC8(Validate privileges) | 61, 67 |
| Orderer | Signup the member. | C-UC9(Sign up) | 62, 63, 68, 64 |
| Orderer | Orderer wants to look user info page. | C-UC10(Display user’s info page) | 65,66 |
| Screen | Display order list with each condition. | C-UC11(Display Orders) | 69, 53 |

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| Use Case C-UC1 | | | Accept order |
| Related Requirements | | | [REQ54] The system should allow a clerk to change order's status from "ordered" to ("order accepted" or "order rejected"). |
| Initiating Actor | | | Clerk |
| Actor’s Goal | | | Clerk decides whether receiving order or not |
| Participating Actors | | | Order Tracker, Screen |
| Preconditions | | | None |
| Postconditions | | | C-UC2 |
| Flow of Events for Main Succes Scenario: | | | |
|  | 1 | User indentification(include Authenticate user C-UC8) | |
|  | 2 | The system takes orders from user and transfers it to Clerk. | |
| → | 3 | Clerk checks the order and updates its status from “ordered” to “ordered accepted” or “ordered rejected”. | |
| ← | 4 | Order Tracker updates order’s status. | |
| ← | 5 | Screen displays the Order Tracker. | |

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| Use Case C-UC2 | | | Complete Cook |
| Related Requirements | | | [REQ55] The system should allow a clerk to change order's status from "order accepted" to "cook completed". |
| Initiating Actor | | | Clerk |
| Actor’s Goal | | | Clerk changes the status of order from “order accepted” to “cook completed”. |
| Participating Actors | | | Order Tracker, Screen |
| Preconditions | | | C-UC1 |
| Postconditions | | | C-UC4 |
| Flow of Events for Main Succes Scenario: | | | |
| → | 1 | When pizza is done, Clerk updates its status from “order accepted” to “cook completed”. | |
| ← | 2 | Order Tracker updates order’s status. | |
| ← | 3 | Screen displays the Order Tracker. | |

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| Use Case C-UC3 | | | Handle emergency |
| Related Requirements | | | [REQ56] The system shall change the order status to "invalid" in an emergency by clerk. |
| Initiating Actor | | | Clerk |
| Actor’s Goal | | | In emergency senario, clerk refuses the order. |
| Participating Actors | | | Order Tracker, Screen |
| Preconditions | | | None |
| Postconditions | | | None |
| Flow of Events for Main Succes Scenario: | | | |
|  | 1 | The system takes orders from user and transfers it to Clerk. | |
| → | 2 | In emergency, Clerk updates order’s status from “ordered” to “invlid”. | |
| ← | 3 | Order Tracker updates order’s status. | |
| ← | 4 | Screen displays the Order Tracker. | |

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| Use Case C-UC4 | | | Start Delievery |
| Related Requirements | | | [REQ57] The system should allow a delivery man and server to change order's status from "cook completed" to ("delivering" and "served"). |
| Initiating Actor | | | Delivery man |
| Actor’s Goal | | | After “cook completed”, delivery man receives it and start delivery or serving. |
| Participating Actors | | | Order Tracker, Screen |
| Preconditions | | | C-UC2 |
| Postconditions | | | C-UC4 |
| Flow of Events for Main Succes Scenario: | | | |
|  | 1 | User indentification(include Authenticate User C-UC8) | |
| → | 2 | Delivery man receives the pizzas that have to deliver to orderer. | |
| → | 3 | Delivery man updates its status from “cook completed” to “delivering” or “served”.. | |
| ← | 4 | Order Tracker updates order’s status. | |
| ← | 5 | Screen displays the Order Tracker. | |

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| Use Case C-UC5 | | | Complete Delivery |
| Related Requirements | | | [REQ58] The system should allow a delivery man to change order's status from "delivering" to "delivery completed". |
| Initiating Actor | | | Delivery man |
| Actor’s Goal | | | When delivery is completed, delivery man changes the status from ”delivering” to “delivery completed”. |
| Participating Actors | | | Order Tracker, Screen |
| Preconditions | | | C-UC4 |
| Postconditions | | | None |
| Flow of Events for Main Succes Scenario: | | | |
| → | 1 | Delivery man delivers the pizzas to orderer. | |
| → | 2 | Delivery man updates its status from “delivering” to “delivery completed”. | |
| ← | 3 | Order Tracker updates order’s status. | |
| ← | 4 | Screen displays the Order Tracker. | |

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| Use Case C-UC6 | | | Track order |
| Related Requirements | | | [REQ59] The system should record the last time when order's status has changed. |
| Initiating Actor | | | Order Tracker |
| Actor’s Goal | | | Older Tracker keeps updating the last status of order. |
| Participating Actors | | | Clerk, Delivery man, Screen |
| Preconditions | | | C-UC1, C-UC2, C-UC3, C-UC4, C-UC5 |
| Postconditions | | | None |
| Flow of Events for Main Succes Scenario: | | | |
| → | 1 | Clerk and Delivery man update status of orders | |
| ← | 2 | When the order status is changed, Order Tracker recognizes and reflects it. | |
| ← | 3 | Screen displays the Order Tracker with last changed time of order’s status. | |

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| Use Case C-UC7 | | | Logout |
| Related Requirements | | | [REQ60] The system should return to the initial screen when the user logs out. |
| Initiating Actor | | | User(Orderer, Manager, Clerk, Delivery man) |
| Actor’s Goal | | | Remove user’s data from the device.  Or Prepare to login with another user. |
| Participating Actors | | | Authenticator |
| Preconditions | | | C-UC8(Authenticate User) |
| Postconditions | | |  |
| Flow of Events for Main Succes Scenario: | | | |
| → | 1. | An user click logout button. | |
|  | 2. | The authenticator remove user’s login state. | |
| ← | 3. | Redirect main page. | |

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| Use Case C-UC8 | | | Authenticate User |
| Related Requirements | | | [REQ61] The system shall deny the access to user's info when the user logs out.  [REQ67] The system should allow password mistakes up to 5 times. |
| Initiating Actor | | |  |
| Actor’s Goal | | | The orderer wants to access without privileges.  The authenticator wants to block the orderer. |
| Participating Actors | | | Authenticator |
| Preconditions | | | C-UC7, C-UC12 |
| Postconditions | | |  |
| Flow of Events for Main Succes Scenario: | | | |
| -> | 1. | An user tries to pages with user information. | |
|  | 2. | The authenticator validate his/her privileges. | |
| <- | 3-1. | Allow the access. | |
| <- | 3-2. | Deny the access. | |

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| Use Case C-UC9 | | | Sign up |
| Related Requirements | | | [REQ62] The system should check that the password length is more than 8 characters.  [REQ63] The system should check that the password contains at least one number, upper/lower case and special character.  [REQ68] The system shall encrypt and store orderer pw.  [REQ64] The system should maintain an unique user's ID and email. |
| Initiating Actor | | | User(Orderer, Clerk, Delivery man) |
| Actor’s Goal | | | Signup the member. |
| Participating Actors | | | Authenticator |
| Preconditions | | |  |
| Postconditions | | |  |
| Flow of Events for Main Succes Scenario: | | | |
| -> | 1. | An user wants to register the hompage as a member. | |
|  | 2. | The authenticator check that the user id and email are unique. | |
|  | 3. | The authenticator check that the length of password is more than 8 characters. | |
|  | 4. | The system should check that the password contains at least one number, upper/lower case and special character. | |
| <- | 5-1. | If any of scenario 2, 3, 4 are failed, reject the user’s signup. | |
| <- | 5-2. | Successfully signup. | |

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| Use Case C-UC10 | | | Display user’s info page |
| Related Requirements | | | [REQ65] The system should provide user info page.  [REQ66] The system should get the password when the user try to enter user info page. |
| Initiating Actor | | | Orderer |
| Actor’s Goal | | | Orderer wants to look user info page. |
| Participating Actors | | | Authenticator |
| Preconditions | | | C-UC8(Authenticate User) |
| Postconditions | | |  |
| Flow of Events for Main Succes Scenario: | | | |
| -> | 1. | Request User info page with user password | |
|  | 2. | UC8 | |
| <- | 3. | Response User info. | |

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| Use Case C-UC11 | | | Display Orders |
| Related Requirements | | | [REQ53] The system shall allow an orderer to see status("ordered" as "cooking", "cook completed") on a simple page.  [REQ69] The system should provide the page that "ordered completed" and "cook completed" can't rewrite(Readonly). |
| Initiating Actor | | | Screen |
| Actor’s Goal | | | Display order list with each condition. |
| Participating Actors | | | Order List |
| Preconditions | | |  |
| Postconditions | | |  |
| Flow of Events for Main Succes Scenario: | | | |
| -> | 1. | Screen requests uncompleted order list. | |
|  | 2. | Order List response uncompleted order list. | |

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| Use Case C-UC12 | | | Login User |
| Related Requirements | | | [REQ3] The system should display "go to cart", "login"/"logout" buttons on every pages  [REQ52] The system shall allow an orderer to order new pizza both as a member or non-member. |
| Initiating Actor | | | User |
| Actor’s Goal | | | The user wants to authenticate by the system. |
| Participating Actors | | | Authenticator |
| Preconditions | | |  |
| Postconditions | | |  |
| Flow of Events for Main Succes Scenario: | | | |
| -> | 1. | An user inputs his/her ID and password. | |
|  | 2. | Validate ID and password. | |
| <- | 3-1. | When the information is valid, send a success message. | |
| <- | 3-2. | When the information is invalid, send a failure message. | |