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| Use Case UC-1 | | | AuthenticateUser |
| Related Requirements | | | [REQ45](The system shall allow users to be granted only when they have appropriate authorities.) |
| Initiating Actor | | | Users(Orderer, Clerk, Delivery man, Manger) |
| Actor’s Goal | | | To check whether the user has right authorities for the system |
| Participating Actors | | |  |
| Preconditions | | | Users have their own roles |
| Postconditions | | | Not necessary |
| Flow of Events for Main Success Scenario: | | | |
| -> | 1. | Users request system whether they match with the required role of the system. | |
| <- | 2. | The system send query to Database to get information about the user. | |
| -> | 3. | Database send information about the user to the system. | |
| <- | 4. | The system returns whether the user has right authorities for the system | |

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| Use Case UC-2 | | | ManageMenus |
| Related Requirements | | | REQ-30, REQ-32, REQ-35 |
| Initiating Actor | | | Manager |
| Actor’s Goal | | | To manage menus, add/remove/edit list. |
| Participating Actors | | | Menulist |
| Preconditions | | | System has a user interface that can add, edit, and remove menu list item. |
| Postconditions | | | * The modified data is stored into the Menulist * Redirect or Refresh to menu list page |
| Flow of Events for Main Success Scenario: | | | |
|  | 1. | AuthenticateUser: include UC-1 | |
| -> | 2. | Manager clicks the link “Menu Management”. | |
| <- | 3. | System requests Menulist to get list of the menus. | |
| -> | 4. | Menulist returns the requested data. | |
| <- | 5. | System displays list of menus(including their information) to the Manager. | |
| -> | 6. | Manager selects appropriate option for managing menus. | |
| <- | 7. | System requests Menulist to (a) store or (b) update or (c) delete the menu data. | |
| Flow of Events for Extensions (Alternate Scenarios): | | | |
| 6a. | | Selected button entails adding new menu item: Include AddPizza(UC-3) | |
| 6b. | | Selected button entails editing menu item: Include UpdatePizza(UC-4) | |
| 6c. | | Selected button entails removing menu item: Include DeletePizza(UC-5) | |

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| Use Case UC-3 | | | AddMenu |
| Related Requirements | | | REQ-35 |
| Initiating Actor | | | Manager |
| Actor’s Goal | | | To register new menu to menu list. |
| Participating Actors | | | Menulist |
| Preconditions | | | * ‘AddMenu’ button or icon presents in the page. |
| Postconditions | | | * Redirect to menu list page. |
| Flow of Events for Main Success Scenario: | | | |
| -> | 1. | Manager clicks the ‘AddMenu’ button. | |
| <- | 2. | System displays a page with text blanks to fill in with essential information(name, type, price, allergy, and short description). | |
| -> | 3. | Manager fills in each blanks and press “complete button”. | |
| <- | 4. | System requests Menulist to store the new data. | |
| Flow of Events for Extensions (Alternate Scenarios): | | | |
| 3a. | | Manager fills in the blanks with invalid type of data. | |
| <- | | System (a) displays error message over the blank and (b) disable “complete button”. | |

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| Use Case UC-4 | | | UpdateMenu |
| Related Requirements | | | REQ-35 |
| Initiating Actor | | | Manager |
| Actor’s Goal | | | To edit data of menu item. |
| Participating Actors | | | Menulist |
| Preconditions | | | -‘Edit Menu’ button or icon presents in each line of the menu item.  -More than one menu be in list. |
| Postconditions | | | * The modified data is stored into the Menulist. * System redirects to menu list page. |
| Flow of Events for Main Success Scenario: | | | |
| -> | 1. | Manager clicks the “edit button” located on each item of the menu list. | |
| <- | 2. | System requests for the clicked menu’s data to Menulist. | |
| -> | 3. | Menulist returns the requested menu data. | |
| <- | 4. | System shows input list for essential information(name, type, price, allergy, short description) filled with returned menu data. | |
| -> | 5. | Manager edits the menu data and submit to the system. | |
| <- | 6. | System requests Menulist to store editted information. | |
| Flow of Events for Extensions (Alternate Scenarios): | | | |
| 3a. | | Manager fills in the blanks with invalid type of data. | |
| <- | | System (a) displays error message over the blank and (b) disable “complete button”. | |

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| Use Case UC-5 | | | DeleteMenu |
| Related Requirements | | | REQ-35 |
| Initiating Actor | | | Manager |
| Actor’s Goal | | | To delete items in menu list. |
| Participating Actors | | | Menulist |
| Preconditions | | | -‘DeleteMenu’ button or icon presents in each line of the menu list.  -More than one menus be in list. |
| Postconditions | | | * Menulist deletes the menu. * System refreshes current page. |
| Flow of Events for Main Success Scenario: | | | |
| -> | 1. | Manager clicks the ‘DeleteMenu’ button next to the particular line of the menu list. | |
| <- | 2. | System requests Menulist to delete the clicked menu. | |

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| Use Case UC-6 | | | ManageUsers |
| Related Requirements | | | [REQ33] The system shall display total member list first on "member management".  [REQ34] The system should allow selecting view option(by role) of member list on "member management  [REQ37] The system shall allow viewing, adding, editing, deleting members on "member management".  [REQ38] The system shall allow adding privileged-member only on "member management. |
| Initiating Actor | | | Manager |
| Actor’s Goal | | | To manage users, ‘granting privilege, add/remove/edit list’ |
| Participating Actors | | | User(Orderer, Clerk, Delivery man, Manger) |
| Preconditions | | | * More than one user be in list * Users has their own appropriate authorities. * System has a user interface that can edit or remove each user account. * System has a user interface that can add an user account |
| Postconditions | | | * The modified data is stored into the User. * Redirect or Refresh to user list page |
| Flow of Events for Main Success Scenario: | | | |
|  | 1. | AuthenticateUser: include UC-1 | |
| -> | 2. | Manager selects clicks the link “User Management” | |
| <- | 3. | System requests User to get list of the users. | |
| -> | 4. | User returns the requested data. | |
| <- | 5. | System displays (a)list of users(including their information) to the Manager and (b)user interfaces | |
| -> | 6. | Manager selects an appropriate option for managing users. | |
| <- | 7. | System requests User to (a)store or (b)update or (c)delete the data. | |
| Flow of Events for Extensions (Alternative Scenarios): | | | |
| 6a. | Selected activity entails adding new users: Include AddUser(UC-7) | | |
| 6b. | Selected activity entails updating new users: Include UpdateUser(UC-7) | | |
| 6c. | Selected activity entails deleting new users: Include DeleteUser(UC-9) | | |

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| Use Case UC-7 | | | AddUser |
| Related Requirements | | | [REQ37] The system shall allow viewing, adding, editing, deleting members on "member management".  [REQ68] The system shall encrypt and store orderer pw . |
| Initiating Actor | | | Manager |
| Actor’s Goal | | | * To Add a new employee’s account who has particular authorities for the system |
| Participating Actors | | | User(Orderer, Clerk, Delivery man, Manger) |
| Preconditions | | | * ‘AddUser’ button or icon presents in the page * New user’s information is not redundant. * New user has his/her own special role(Orderer, Clerk, Delivery man, Delivery man) for the system |
| Postconditions | | | * The new user data is stored into the User. * Redirect to user list page |
| Flow of Events for Main Success Scenario: | | | |
| -> | 1. | Manager clicks ‘AddUser’ button | |
| <- | 2. | System displays a page with text blanks to fill in with essential information(id, password, name, address, email, Role, phone number) | |
| -> | 3. | Manager fills in each blanks and press “complete button”. | |
| <- | 4. | System encrypts password and requests User to store information. | |
| Flow of Events for Extensions (Alternative Scenarios): | | | |
| 3a. | Manager fills in the blanks with invalid type of data or insufficient password. | | |
| <- | System (a) displays error message over the blank and (b) disable “complete button”. | | |

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| Use Case UC-8 | | | UpdateUser |
| Related Requirements | | | [REQ37] The system shall allow viewing, adding, editing, deleting members on "member management".  [REQ68] The system shall encrypt and store orderer pw . |
| Initiating Actor | | | Manager |
| Actor’s Goal | | | * To edit a user’s information. * To endow privilege or role of the user. |
| Participating Actors | | | User(Orderer, Clerk, Delivery man, Manger) |
| Preconditions | | | * ‘Edit user’ button or icon presents in each line of the user information. * The user has his/her own special role(Orderer, Clerk, Delivery man) for the system. * Existing information is filled in the form * More than one user be in list. |
| Postconditions | | | * The modified data is stored in the User * Redirect to user list page. |
| Flow of Events for Main Success Scenario: | | | |
| -> | 1. | Manager clicks “edit button” located on each user of the user list. | |
| <- | 2. | System requests the user data stored in User. | |
| -> | 3. | User returns the existing user data of the user. | |
| <- | 4. | System shows input list for essential information(id, password, name, address, email, Role, phone number and existing information is filled. | |
| -> | 5. | Manager (a) edits information and submit to the system or (b) endows privilege or role of the user | |
| <- | 6. | System encrypts password and requests User to store editted information. | |
| Flow of Events for Extensions (Alternative Scenarios): | | | |
| 5a. | Manager fills in the blanks with invalid type of data or insufficient password. | | |
| <- | System (a) displays error message over the blank and (b) disable “complete button”. | | |

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| Use Case UC-9 | | | DeleteUser |
| Related Requirements | | | [REQ37] The system shall allow viewing, adding, editing, deleting members on "user management". |
| Initiating Actor | | | Manager |
| Actor’s Goal | | | To delete a user account |
| Participating Actors | | | User(Orderer, Clerk, Delivery man, Manger) |
| Preconditions | | | * ‘DeleteUser’ button or icon presents in each line of the user information. * The user has his/her own special role(Orderer, Clerk, Delivery man) for the system. * More than one user be in list. |
| Postconditions | | | * The user account is removed from User. * Refresh page |
| Flow of Events for Main Success Scenario: | | | |
| -> | 1. | Manager clicks DeleteUser button next to the particular line of the user list. | |
| <- | 2. | System requests User to delete the account. | |

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| Use Case UC-10 | | | DisplaySales |
| Related Requirements | | | REQ-29, REQ-30, REQ-36 |
| Initiating Actor | | | Manager |
| Actor’s Goal | | | To view sales of the store by some options. |
| Participating Actors | | | Orderlist |
| Preconditions | | | System has a user interface that can select criteria to view. |
| Postconditions | | | none |
| Flow of Events for Main Success Scenario: | | | |
|  | 1. | AuthenticateUser: UC-1 | |
| -> | 2. | Manager clicks the link “Display sales” | |
| <- | 3. | System requests for total sales list to Orderlist. | |
| -> | 4. | Orderlist returns the requested data. | |
| <- | 5. | System displays total sales list, total sales revenue, and view criteria(including drop-down menu “by pizza” and two blanks for start date, end date). | |
| -> | 6. | Manager specifies the criteria and clicks “Apply button”. | |
| <- | 7. | System requests for sales list that matches the specified criteria to Orderlist. | |
| -> | 8. | Orderlist returns the matching sales list. | |
| <- | 9. | System displays the sales list and revenue returned by Orderlist. | |
| Flow of Events for Extensions (Alternate Scenarios): | | | |
| 6a. | | Selected drop-down menu entails displaying new sales list, revenue by pizza: Include DisplayByPizza(UC-11) | |
| 6b. | | Filled in blanks(start date, end date) entails displaying new sales list, revenue by period: Include DisplayByPeriod(UC-12) | |

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| Use Case UC-11 | | | DisplayByPizza |
| Related Requirements | | | REQ-29, REQ-36 |
| Initiating Actor | | | Manager |
| Actor’s Goal | | | To view sales list of particular pizza. |
| Participating Actors | | | Orderlist |
| Preconditions | | | System has drop-down menu consists of menu list. |
| Postconditions | | | none |
| Flow of Events for Main Success Scenario: | | | |
| -> | 1. | Manager clicks the drop-down menu “by pizza”. | |
| <- | 2. | System provide filtering options consists of menu list and “none”. | |
| -> | 3. | Manager selects one option from list and clicks “Apply button”. | |
| <- | 4. | System requests for sales list that matches the specified criteria to Orderlist. | |
| -> | 5. | Orderlist returns the matching sales list. | |
| <- | 6. | System displays the sales list and revenue returned by Orderlist. | |
| Flow of Events for Extensions (Alternate Scenarios): | | | |
| 3a. | | Manager selects “none” option. | |
| <- | 1. | System filters sales list only by period. | |

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| Use Case UC-12 | | | DisplayByPeriod |
| Related Requirements | | | REQ-29, REQ-36 |
| Initiating Actor | | | Manager |
| Actor’s Goal | | | To view total sales list by period. |
| Participating Actors | | | Orderlist |
| Preconditions | | | System has two blanks to fill in with date. |
| Postconditions | | | none |
| Flow of Events for Main Success Scenario: | | | |
| -> | 1. | Manager fills in the blanks(start date, end date) with date type text and clicks “Apply button”. | |
| <- | 2. | System requests for sales list that matches the specified criteria to Orderlist. | |
| -> | 3. | Orderlist returns the matching sales list. | |
| <- | 4. | System displays the sales list and revenue returned by Orderlist. | |
| Flow of Events for Extensions (Alternate Scenarios): | | | |
| 1a. | | Manager fills in the start date blank incompletely. | |
| <- | 1. | System fills in the start date with open date automatically. | |
| 1b. | | Manager fills in the end date blank incompletely. | |
| <- | 1. | System fills in the end date with current date automatically. | |
| 1c. | | Manager fills in the date blank with invalid type data. | |
| <- | 1. | System displays error message over the blank and disable “Apply button”. | |

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| Use Case UC-13 | | | SwitchOpening |
| Related Requirements | | | REQ-30, REQ-31 |
| Initiating Actor | | | Manager |
| Actor’s Goal | | | To open/close store by switch. |
| Participating Actors | | | none |
| Preconditions | | | System has a toggle switch on admin page. |
| Postconditions | | | none |
| Flow of Events for Main Success Scenario: | | | |
|  | 1. | AuthenticateUser: UC-1 | |
| -> | 2. | Manager clicks the toggle switch on admin page to open/close store. | |
| <- | 3. | System changes state(ON->OFF, OFF->ON). | |
| Flow of Events for Extensions (Alternate Scenarios): | | | |
| 2a. | | The state of store is “Closed” | |
| <- | 1. | System changes state from “Closed” to “Opened”. | |
| 2b. | | The state of store is “Opened”. | |
| <- | 1. | System changes state from “Opened” to “Closed”. | |