Food Delivery Online System

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## Overview

The proposed software system “food delivery online system” is an enterprise system in Australia. This system allows customers to order food online and helps restaurants process orders. Customers can search their favourite food and generate orders online, and then restaurants will receive the orders and process them. This system is helpful for restaurants to get order online and to handle the food delivery, thereby increasing profits.

Two main roles of the system: restaurant and customer

## Feature A – Menu Management

Restaurants can post new dishes to their menu on the system. Dishes in the menu can be view by both restaurants and customers. Restaurants can update the attributes of the dishes such as price and description. Restaurants can also delete their dishes.

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| Use Case ID | UC01 |
| Actor | Restaurant user |
| Description | The restaurant user would like to post a new dish to the menu. |
| Procedures | 1. The user logs into the system. 2. The user selects “New Dish”. 3. The user input the name, price, type, number in stock and description of the dish. 4. The user selects “Submit”. |

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| Use Case ID | UC02 |
| Actor | Restaurants |
| Description | The restaurant user would like to view the information of the dishes in their menu. |
| Procedures | 1. The user logs into the system. 2. The user selects “My Menu” 3. The user views the dishes list and select one dish. 4. The user views the detailed information of the selected dish. |

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| Use Case ID | UC03 |
| Actor | Restaurant user |
| Description | The restaurant user would like to update a dish in their menu. |
| Procedures | 1. The user logs into the system. 2. The user selects “My Menu” 3. The user views the dishes list and select one dish. 4. The user selects “Modify”. 5. The user inputs the new value of attributes of the selected dish. 6. The user selects “Submit”. |

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| Use Case ID | UC04 |
| Actor | Restaurant user |
| Description | The restaurant user would like to delete a dish in their menu. |
| Procedures | 1. The user logs into the system. 2. The user selects “My Menu”. 3. The user views the dishes list and select one dish. 4. The user selects “Delete”. |

## Feature B – Order Management

Customers can create orders. Orders can be viewed and tracked by the customer and the restaurants. Restaurants can update the state of the order (new->admitted->delivered). Orders can be deleted by restaurants after the food is delivered. Orders can also be deleted by customers before admitted.

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| Use Case ID | UC05 |
| Actor | Customer |
| Description | The customer would like to search for dishes in a nearby restaurant. |
| Procedures | 1. The user logs into the system. 2. The user selects “Find Food”. 3. The user selects the location. 4. The user optionally inputs keywords, food type. 5. The user selects “Search”. 6. The user views the list of restaurant and select one of them. 7. The user views the dishes on the menu. |

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| Use Case ID | UC06 |
| Actor | Customer |
| Description | The customer would like to create an order. |
| Procedures | 1. The user logs into the system. 2. The user selects a dish. 3. The user selects “Create Order”. 4. The user inputs address, phone number, amount of dishes and payment method. 5. The user selects “Submit”. |

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| Use Case ID | UC07 |
| Actor | Restaurant user/Customer |
| Description | The user would like to view their orders. |
| Procedures | 1. The user logs into the system. 2. The user selects “My Order”. 3. The user views the list of their orders. 4. The user selects one of the orders. 5. The user views the detail of the selected order. |

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| Use Case ID | UC08 |
| Actor | Customer |
| Description | The customer would like to cancel an order. |
| Procedures | 1. The user logs into the system. 2. The user selects “My Order”. 3. The user views the list of their orders. 4. The user selects one of the orders of which state is “new”. 5. The user selects “Cancel Order”. |

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| Use Case ID | UC09 |
| Actor | Restaurant user |
| Description | The restaurant user would like to update the state of an order. |
| Procedures | 1. The user logs into the system. 2. The user selects “My Order”. 3. The user views the list of their orders. 4. The user selects one of the orders. 5. The user selects “Update Order” 6. The user selects the state of the Order. 7. The user selects “Submit”. |

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| Use Case ID | UC10 |
| Actor | Restaurant user |
| Description | The restaurant user would like to delete a completed order. |
| Procedures | 1. The user logs into the system. 2. The user selects “My Order”. 3. The user views the list of their orders. 4. The user selects one of the orders of which state is “delivered”. 5. The user selects “Delete Order”. |

## Concurrency Issue:

1. The restaurant is able to modify the in stock number of a dish. The number will be also modified when a customer submit an order. There would be a concurrency issue when a customer is trying to submit an order while the restaurant is modifying the in stock number or trying to delete the dish.
2. An order can be deleted by customer only when the state is “new”. And the state can be changed by the restaurant. There would be a concurrency issue when a customer is trying to cancel an order while the restaurant is trying to change the state from “new” to “admitted”.