For Competition App *System*:

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| **ID and name** | UC-1: Order a Meal | | |
| **Primary actor** | Patron | **Secondary actors** | Cafeteria Inventory System |
| **Description** | A Patron accesses the Cafeteria Ordering System from either the corporate intranet or external Internet, views the menu for a specific date, selects food items, and places an order for a meal to be picked up in the cafeteria or delivered to a specified location within a specified 15-minute time window. | | |
| **Trigger** | A Patron indicates that he wants to order a meal. | | |
| **Preconditions** | PRE-1. Patron is logged into COS.  PRE-2. Patron is registered for meal payments by payroll deduction. | | |
| **Postconditions** | POST-1. Meal order is stored in COS with a status of “Accepted.”  POST-2. Inventory of available food items is updated to reflect items in this order.  POST-3. Remaining delivery capacity for the requested time window is updated. | | |
| **Normal flow** | **1.0 Order a Single Meal**   1. Patron asks to view menu for a specific date. (see 1.0.E1, 1.0.E2) 2. COS displays menu of available food items and the daily special. 3. Patron selects one or more food items from menu. (see 1.1) 4. Patron indicates that meal order is complete. (see 1.2) 5. COS displays ordered menu items, individual prices, and total price, including taxes and delivery charge. 6. Patron either confirms meal order (continue normal flow) or requests to modify meal order (return to step 2). 7. COS displays available delivery times for the delivery date. 8. Patron selects a delivery time and specifies the delivery location. 9. Patron specifies payment method. 10. COS confirms acceptance of the order. 11. COS sends Patron an email message confirming order details, price, and delivery instructions. 12. COS stores order, sends food item information to Cafeteria Inventory System, and updates available delivery times. | | |
| **Alternative flows** | **1.1 Order multiple identical meals**   1. Patron requests a specified number of identical meals. (see 1.1.E1) 2. Return to step 4 of normal flow.   **1.2 Order multiple meals**   1. Patron asks to order another meal. 2. Return to step 1 of normal flow. | | |
| **Exceptions** | **1.0.E1 Requested date is today and current time is after today’s order cutoff time**  1. COS informs Patron that it’s too late to place an order for today.  2a. If Patron cancels the meal ordering process, then COS terminates use case.  2b. Else if Patron requests another date, then COS restarts use case.  **1.0.E2 No delivery times left**  1. COS informs Patron that no delivery times are available for the meal date.  2a. If Patron cancels the meal ordering process, then COS terminates use case.  2b. Else if Patron requests to pick the order up at the cafeteria, then continue with normal flow, but skip steps 7 and 8.  **1.1.E1 Insufficient inventory to fulfill multiple meal order**  1. COS informs Patron of the maximum number of identical meals he can order, based on current available inventory.  2a. If Patron modifies number of meals ordered, then return to step 4 of normal flow.  2b. Else if Patron cancels the meal ordering process, then COS terminates use case. | | |

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| **ID and name** | UC-1 Login | | |
| **Primary actor** | SystemUser | **Secondary actors** |  |
| **Description** | Users that are registered in the system and want to see their options related to their role must first login in into the system | | |
| **Trigger** | SystemUsers starts the application | | |
| **Preconditions** | PRE-1. SystemUser must be registered in the database. | | |
| **Postconditions** | POST-1. SystemUser is logged in and is seeing its dashboard. | | |
| **Normal flow** | **1.0 Log in into Competition app system ( as CAS ):**   1. COS displays the login window and asks the SystemUser to enter its username and password. 2. SystemUser enters its credentials. 3. COS asks Patron to confirm his desire to register for payroll deduction. 4. If so, COS asks Payroll System to establish payroll deduction for Patron. 5. Payroll System confirms that payroll deduction is established. 6. COS informs Patron that payroll deduction is established. | | |
| **Alternative flows** | None | | |
| **Exceptions** | 5.0.E1 Patron is not a full time employee.  5.0.E2 Patron is already enrolled for payroll deduction. | | |

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| **ID and name** | UC-5 Register for Payroll Deduction | | |
| **Primary actor** | Patron | **Secondary actors** | Payroll System |
| **Description** | Cafeteria patrons who use the COS and have meals delivered must be registered for payroll deduction. For noncash purchases made through the COS, the cafeteria will issue a payment request to the Payroll System, which will deduct the meal costs from the next scheduled employee payday direct deposit. | | |
| **Trigger** | Patron requests to register for payroll deduction, or Patron says yes when COS asks if he wants to register. | | |
| **Preconditions** | PRE-1. Patron is logged into COS. | | |
| **Postconditions** | POST-1. Patron is registered for payroll deduction. | | |
| **Normal flow** | **5.0 Register for Payroll Deduction**   1. COS asks Payroll System if Patron is eligible to register for payroll deduction. 2. Payroll System confirms that Patron is eligible to register for payroll deduction. 3. COS asks Patron to confirm his desire to register for payroll deduction. 4. If so, COS asks Payroll System to establish payroll deduction for Patron. 5. Payroll System confirms that payroll deduction is established. 6. COS informs Patron that payroll deduction is established. | | |
| **Alternative flows** | None | | |
| **Exceptions** | 5.0.E1 Patron is not a full time employee.  5.0.E2 Patron is already enrolled for payroll deduction. | | |

## Traceability

UC-1:

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| Method-level traces | my.company.ordering.MenuWidget#dateClicked  my.company.ordering.MenuWidget#completeOrder  my.company.ordering.InventoryInterface#checkInventory  ... |

UC-5:

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| Method-level traces | my.company.payroll.PayrollInterface#checkEligibility  my.company.payroll.RegistrationForm#confirm  ... |