**Restaurant Management System**

**Introduction:**

The Restaurant Management System is a web-based system that allows User to search, order and rate food item, and Admin can manage menu and order. This document outlines the use cases of the application, describing the interactions between actors and the system.

**Actors:**

**Admin:** The administrative user who has overall control on the menu, inventory and order management functionalities.

**Customer:** The customer who can search, order and rate food of their choice.

**Chef:** The chef who can manage inventory such as add request item, update request item and view request status updated by the admin.

USE CASE 1

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| Use Case Name: Manage Menu |
| Brief Description: This use case allows the admin to manage the menu items available in the restaurant. |
| Actors: Administrator |
| Preconditions:   * The restaurant management system is operational. * The actor has the necessary credentials to access the system. |
| Main Flow:   1. The actors select one of the following:  * Add a new food item to the menu. * Update an existing food item to the menu. * Remove a food item.  1. If the actor chooses to add new food item:  * The actor provides necessary details such as item name, description, category and price. * The system validates the input. * The system adds the new food item to the menu.  1. If the actor chooses to update an existing food item:  * The actor selects the food item to be updated. * The system displays the current details of the selected food item. * The actor modifies the necessary details such as name, description, category, price, or availability. * The system validates the input. * The system updates the food item with the modified details.  1. If the actor chooses to remove a food item:  * The actor selects the food item to be removed. * The system confirms the deletion with the actor. * The system removes the selected food item from the menu.  1. The system saves the changes made to the menu. 2. The system displays a confirmation message to the actor. |
| Postconditions:   * The Menu Items are updated with the changes made by the actor. * The updated Menu is available to customer. |
| Alternate Flows:   * At any step, the actor can choose to cancel the operation, returning to the main menu |

USE CASE 2

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| Use Case Name: Manage Order |
| Brief Description: This use case allows the admin to view the order details of the customer. |
| Actors: Administrator, Chef |
| Preconditions:   * The restaurant management system is operational. * The actor has the necessary credentials to access the system. |
| Main Flow:   1. The system displays the list of orders to the actor. 2. The actor selects the order to be updated. 3. The admin and chef can view the list of item that are ordered by the customers. 4. The chef can update the order status to “Pending”, “Preparing”, “Delivered”. |
| Postconditions:   * The Order Items are updated with the changes made by the actor. * The updated Status is available to customer. |
| Alternate Flows: None. |

USE CASE 3

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| Use Case Name: Search Food |
| Brief Description: This use case describes the process of searching for specific food items or dishes within a restaurant management system. |
| Actors: Customer |
| Preconditions:   * The restaurant management system is operational. * The actor has the necessary credentials to access the system. |
| Main Flow:   1. The customer navigates to the search functionality within the system. 2. The customer enters keywords or filters to search for specific food items or dishes, such as cuisine type, keyword, or dietary preference. 3. The system displays a list of search results matching the customers criteria. |
| Postconditions:   * The customer reviews the search results and selects a desired food item from the list. |
| Alternate Flows: None. |

USE CASE 4

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| Use Case Name: Manage Cart |
| Brief Description: This use case describes the process of managing the cart within a restaurant management system. The cart represents the items selected by the customer for their order. |
| Actors: Customer |
| Preconditions:   * The restaurant management system is operational. * The actor has the necessary credentials to access the system. |
| Main Flow:   1. The customer browses the restaurant menu and selects items to add to the cart. 2. The system validates the availability of selected items and updates the cart accordingly. 3. The customer can modify the cart by removing items or changing quantities. |
| Postconditions:   * The customers cart Items are updated with the changes made by the actor. |
| Alternate Flows:   * The customer selects the item in the cart and updates the desired quantity. * The system validates the new quantity and updates the cart accordingly. |

USE CASE 5

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| Use Case Name: Place Order |
| Brief Description: This use case describes the process of placing an order within a restaurant management system. It enables customers to select menu items, customize their order, and request delivery. |
| Actors: Customer |
| Preconditions:   * The restaurant management system is operational. * The actor has the necessary credentials to access the system. |
| Main Flow:   1. Review Order:  * The customer reviews the complete order, including the selected items and any customizations. * The system displays a summary of the order, including the item names, quantities, prices, and any additional notes or special request. |
| Postconditions:   * The order status is updated in the system to reflect the progress of fulfillment. * The updated Status is available to customer. |
| Alternate Flows: None. |

USE CASE 6

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| Use Case Name: Rate Food |
| Brief Description: Customers can provide rating for the food items. |
| Actors: Customer |
| Preconditions:   * The restaurant management system is operational. * The actor has the necessary credentials to access the system. * The actor has placed an order or visited the restaurant. |
| Main Flow:  1.The customer selects the option to provide a rating for a specific food item. |
| Postconditions:   * Rating provided by customers are recorded and associated with the respective food item. * The action can be taken based on analysis to enhance the customer experience |
| Alternate Flows: None. |

USE CASE 7

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| Use Case Name: Manage Inventory |
| Brief Description: This use describes the process of managing inventory within a restaurant management system, The chef can add a new inventory item to the system. |
| Actors: Chef, Administrator |
| Preconditions:   * The restaurant management system is operational. * The actor has the necessary credentials to access the system. |
| Main Flow:   1. Add Request Item  * The chef can add new item list to the admin.  1. Update Request Item  * The chef can update the item list that is send to the admin or add additional items.  1. Update Request Status  * The admin can view the request send by the chef and update the request status such as “Pending”, “Approved”, “Delivered”,” Denied”.  1. View Request status  * The chef can view the request status updated by the admin such as “Pending”, “Approved” ,“Delivered”,” Denied”. |
| Postconditions:   * Admin can have the control over the restaurant management system. |
| Alternate Flows: None. |

USE CASE 8

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| Use Case Name: View Rate |
| Brief Description: The restaurant can view and analyze these rating to improve the service. |
| Actors: Admin, Customer |
| Preconditions:   * The restaurant management system is operational. * The actor has the necessary credentials to access the system. * The actor has placed an order or visited the restaurant. |
| Main Flow:  1.The admin and customer can view the rating for a specific food item. |
| Postconditions:   * Rating provided by customers are recorded and associated with the respective food item. * The action can be taken based on analysis to enhance the customer experience |
| Alternate Flows: None. |

USE CASE 9

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| Use Case Name: Manage chef |
| Brief Description: This use case allows the admin to add the details of the chef. |
| Actors: Administrator |
| Preconditions:   * The restaurant management system is operational. * The actor has the necessary credentials to access the system. |
| Main Flow:   1. Manage chef  * The admin can add the details of the chef and give username and password respectively. |
| Postconditions:   * The action can be done based on administrator enhance. * The chef login can be done by respective user id with chef role and password. |
| Alternate Flows: None. |