**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 and order management functionalities.

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

USE CASE 1

|  |
| --- |
| 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

|  |
| --- |
| Use Case Name: Manage Order |
| Brief Description: This use case allows the admin to manage the order details 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 system displays the list of orders to the actor. 2. The actor selects the order to be updated. 3. The actor updates 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

|  |
| --- |
| 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

|  |
| --- |
| 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

|  |
| --- |
| Use Case Name: Manage Reservation |
| Brief Description: This use describes the process of managing reservations within a restaurant management system. |
| Actors: Customer, Administrator |
| Preconditions:   * The restaurant management system is operational. * The actor has the necessary credentials to access the system. * The system has an up-to-date reservation database within available time slot. |
| Main Flow:   1. Make Reservation  * The customer provides details for the reservation, including the desired date, time, and party size.  1. Confirm Reservation  * The admin generates a confirmation for the reservation.  1. Cancel Reservation  * Access the reservation cancellation feature in the system. |
| Postconditions:   * The reservation details are stored and recorded in the restaurant management system’s reservation database. |
| Alternate Flows: None. |

USE CASE 6

|  |
| --- |
| 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.  1. If customer preferred delivery  * Actor should provide necessary details such as mobile number, house number, street, pin code. |
| Postconditions:   * The order status is updated in the system to reflect the progress of fullfillment. * The updated Status is available to customer. |
| Alternate Flows: None. |

USE CASE 7

|  |
| --- |
| Use Case Name: Add Food Rating |
| Brief Description: Customers can provide rating for the food items. The restaurant can view and analyze these rating to improve this service. |
| 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. |