INTRODUCTION

USE CASE DIAGRAM

Use case diagram is the one which show the interactions between a system and its environment. It is used to get a basic outside view of a system as it is the pictorial definition. The use case diagram consists of actors, use cases and their relationships. To clarify the terms, here is the short description of each of the parts :

- System boundary : the entire system as defined in the requirements document.
- Actor : the external entity who interacts with the system
- Use case: the system function that suggest some task.
- Relationship/Association: communication of an actor to a use case .

   ~ Include Relationship : adds additional functionality not specified in the base use case. It must be executed every time ,base use case is executed. Its shown with a directed arrow having a dotted line.

   ~ Extended Relationship : adds optional behavior from an extending use case in an extended use case.
It is executed only when certain criteria is met. It is shown with a directed arrow having a dotted line.

   ~ Generalization : means child use case inherits the behavior and meaning of the parent use case. Its shown as a directed arrow with a triangle arrowhead.

USE-CASE DIAGRAM

OF

RESTAURANT SYSTEM

System : Restaurant System

Use case : Eat food

Actors : Waiter , Client , Cashier , Chef

    Primary Actor: Client

Precondition: Client must check-in

Postcondition: The table must be cleaned after client check-out.

Goal : To have dinner

Overview:
When a client comes to the restaurant, they place an order. The waiter takes an order and passes to the chef . The chef cooks the food and asked the waiter to serves the food to the client. The client makes a payment and the cashier receives it .

Typical scenario of events:

Actor Action	System Response
1. The client checks in	2. Displays the menu
3. Client places the order	8. Display the total price
4. The waiter takes an order	11. Prints the receipt
5. Chef cooks the food.	
6. Waiter serves the food.	
7. Client eats the food	
9. Client makes payment	
10. The cashier records the payment.	

Alternative scenario:
- The food ordered by client can be cancelled.
- The clients may not be happy with the billing system.
- Client can make payment by cash and credit card.

Special Requirements: Android Tablet, Stylus pen.

Summarizing the scenarios , we can now say the goal is met.