

# CSA4001-MANAGEMENT INFORMATION SYSTEM FOR DATA OPTIMIZATION

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2) Draw a coffee coffee day ordering system. A coffee coffee day shop vending machine dispenses coffee to customers. Customers order coffee by selecting a recipe from a set of recipes. Customers pay for the coffee using coins. Change is given back, if any, to the customers. The 'service assistant' loads ingredients (coffee powder, milk, sugar, water, chocolate) into the coffee machine. The 'service assistant' adds recipe by indicating the name of the coffee, the units of coffee powder, milk, sugar, water, chocolate to be added as well as the cost of the coffee. The service assistant can also edit and delete a recipe. Develop the use case diagram for the specification above.

## **AIM:**

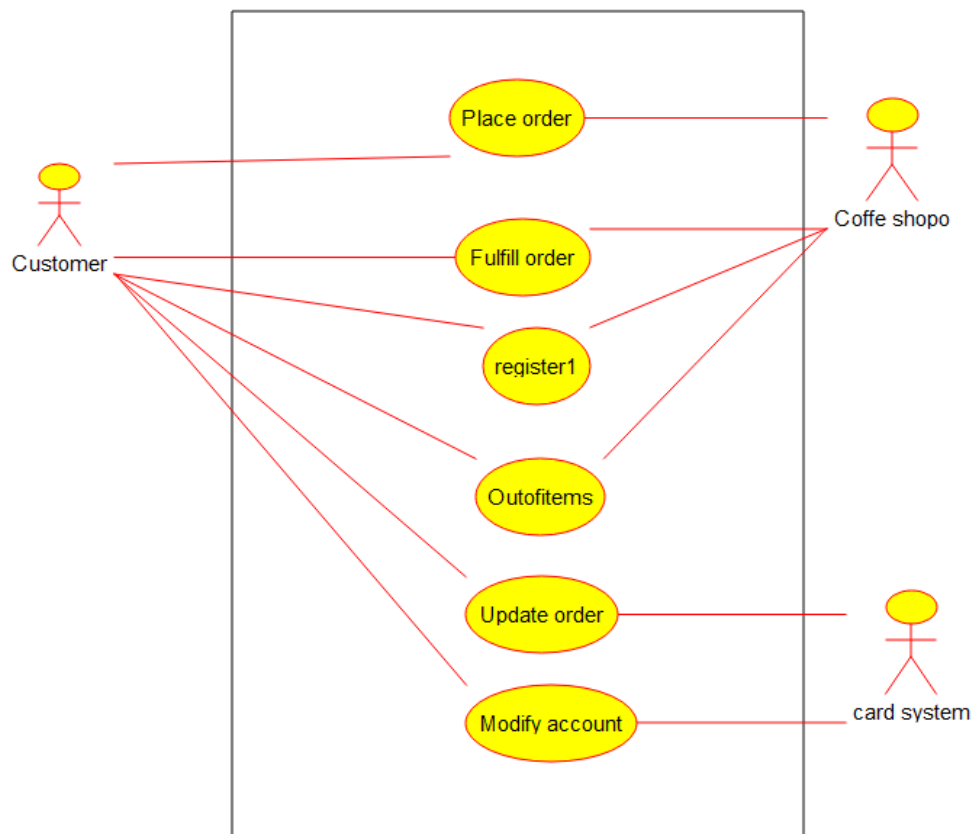
To design a UML model for a Coffee Day Ordering System, where customers can order coffee using a vending machine, select a recipe, pay, and receive change if applicable. The system allows service assistants to manage recipes and ingredients.

## **PROCEDURE**

- Identify actors: Customer, Service Assistant
- Define use cases: Ordering Coffee, Making Payment, Receiving Change, Loading Ingredients, Managing Recipes
- Establish relationships: Connect actors to relevant use cases
- Use "extends" or "includes" where needed
- Draw the diagram with actors on the sides and use cases in the center
- Review and refine for clarity

## OUTPUT:

### USECASE DIAGRAM:



## RESULT:

The Coffee Day Ordering System Use Case diagrams were successfully designed, covering all necessary interactions, workflows, and system components. This provides a structured representation of the system for implementation.