MANAGEMENT INFORMATION SYSTEM

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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.

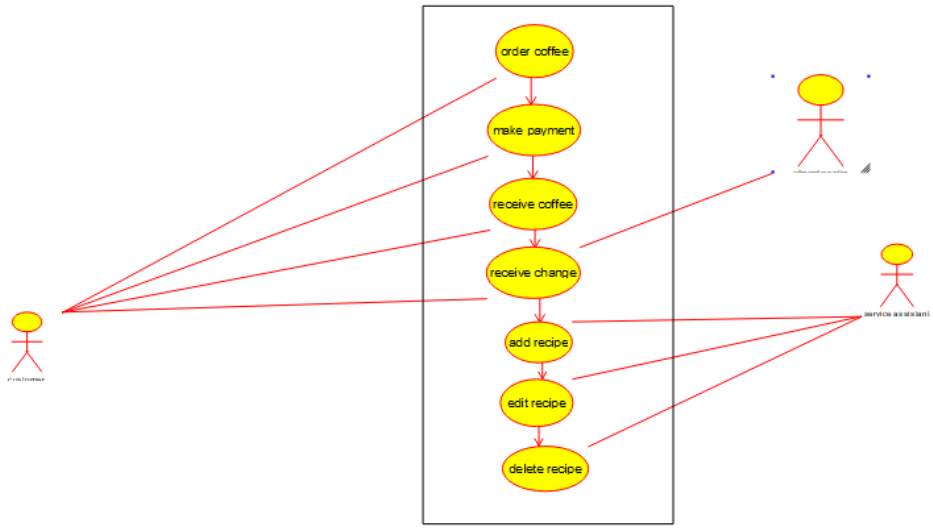
PROCEDURE

- Identify system actors such as Customer and Service Assistant.
- Define use cases like Ordering Coffee, Making Payment, Receiving Change, Loading Ingredients, and Managing Recipes.
- Draw the Use Case Diagram to show interactions between users and the system.
- Create an Activity Diagram to represent the stepwise coffee ordering process.

- Design the Class Diagram to establish key entities like Coffee Machine, Recipe, Payment, and Customer.
- Develop the State Diagram to illustrate different states of a coffee order.
- Create the Sequence Diagram to depict message exchanges between components.
- Design the Communication Diagram to show system component interactions.
- Build the Component and Deployment Diagrams to define system structure and implementation.
- Create the ER Diagram to model database relationships between ingredients, recipes, and transactions.

OUTPUT:

USECASE DIAGRAM:



RESULT:

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