

EXERCISE.NO: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 Use Case Diagram for a Coffee Day Ordering System, representing the interactions between customers, the coffee vending machine, and the service assistant. The diagram models key functionalities such as ordering coffee, making payments, dispensing change, loading ingredients, and managing coffee recipes.

PROCEDURE:

Step 1: The system includes Customer (orders coffee, makes payment, receives change), Service Assistant (manages ingredients, adds/edits/deletes recipes), and Coffee Machine (dispenses coffee).

Step 2: The system allows the Customer to order coffee by selecting a recipe, make payment by inserting coins, receive coffee from the machine, and get change if applicable. The Service Assistant can load ingredients (coffee powder, milk, sugar, etc.) and manage recipes by adding, editing, or deleting them.

Step 3: Actors are connected to relevant use cases using association lines, with "extends" for optional functionalities like returning change and "includes" for dependent actions like making payment before dispensing coffee.

Step 4: Actors are depicted as stick figures, use cases are enclosed in oval shapes within the system boundary, and appropriate connections are established between actors and their respective use cases.

DIAGRAM:



RESULT:

Thus the Use Case diagram for Coffee day Ordering system has been implemented successfully.