

EXERCISE: 9

ONLINE SECURITY MANAGEMENT SYSTEM

AIM:

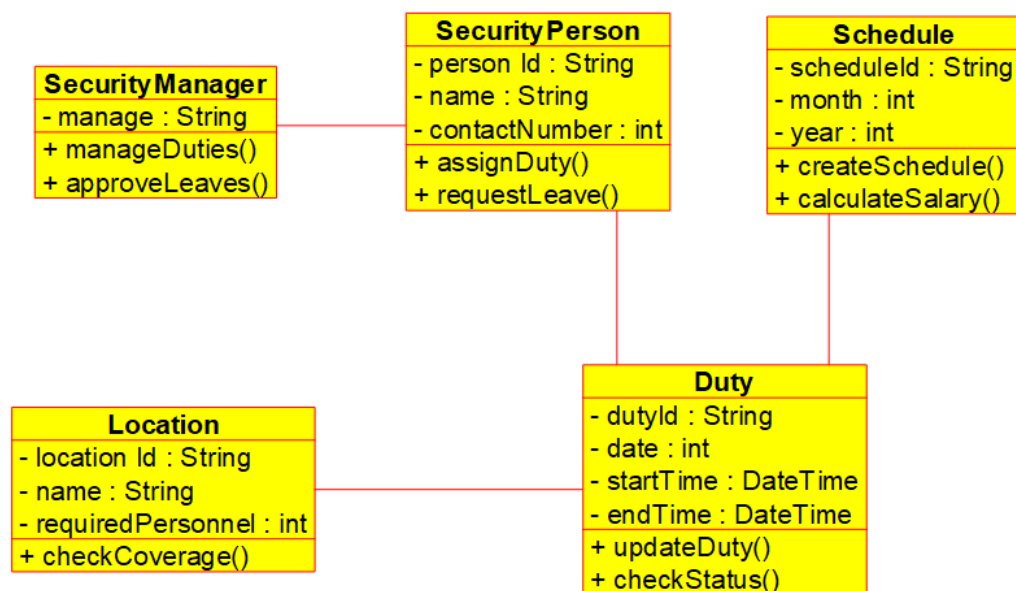
To design and implement a Class Diagram for a Online Security Management System using Umbrello UML modelling software.

PROCEDURE:

1. Install and open Umbrello UML Modeller on the system.
2. Create a new UML project in Umbrello.
3. Identify the required classes: SecurityPerson, DutySchedule, LeaveRecord, Payment, SecurityManager, and CampusLocation.
4. Define attributes such as SecurityID, Name, Date, DutyStartTime, DutyEndTime, Place, LeaveCount, and Salary.
5. Define methods like assignDuty(), applyLeave(), calculateSalary(), and updateSchedule() for each class.
6. Establish relationships: SecurityPerson is associated with DutySchedule, LeaveRecord, and Payment, while SecurityManager manages these entities.
7. Draw the Class Diagram using the Class Diagram tool in Umbrello, adding classes, attributes, methods, and relationships.
8. Save the diagram and export it as an image file for documentation.

DIAGRAM:

CLASS DIAGRAM



RESULT:

The Class Diagram for the Online Security Management System has been successfully designed using Umbrello, representing various components and their relationships in the system.