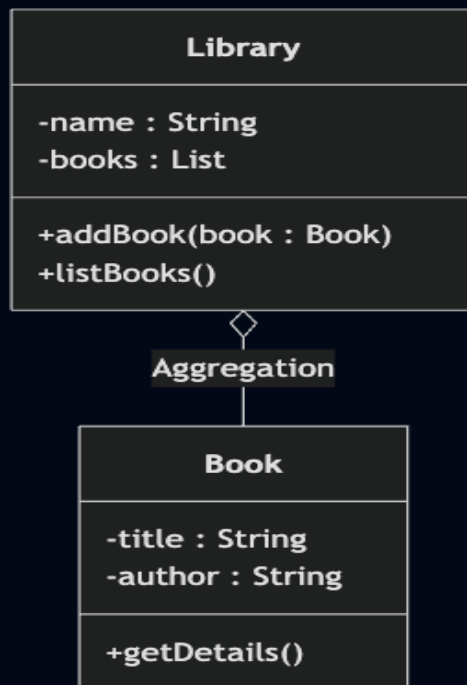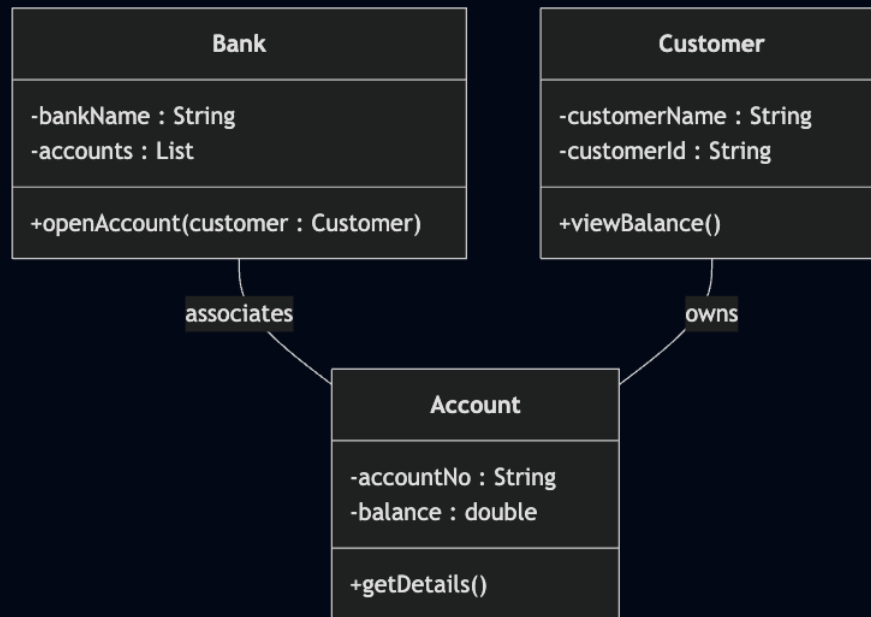# Object modeling: Object relationships and Communication
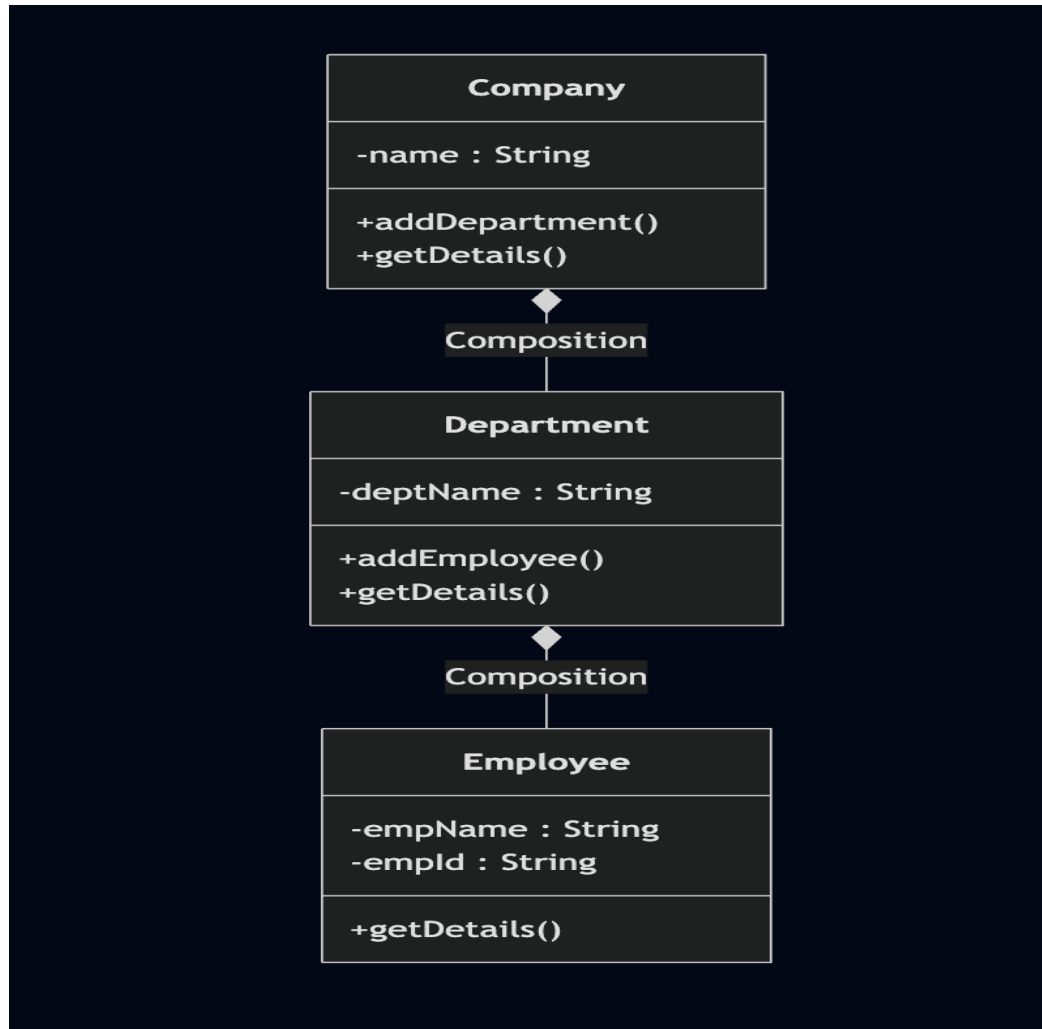
Problem 1: Library and Books (Aggregation)

Problem 2: Bank and Account Holders (Association)
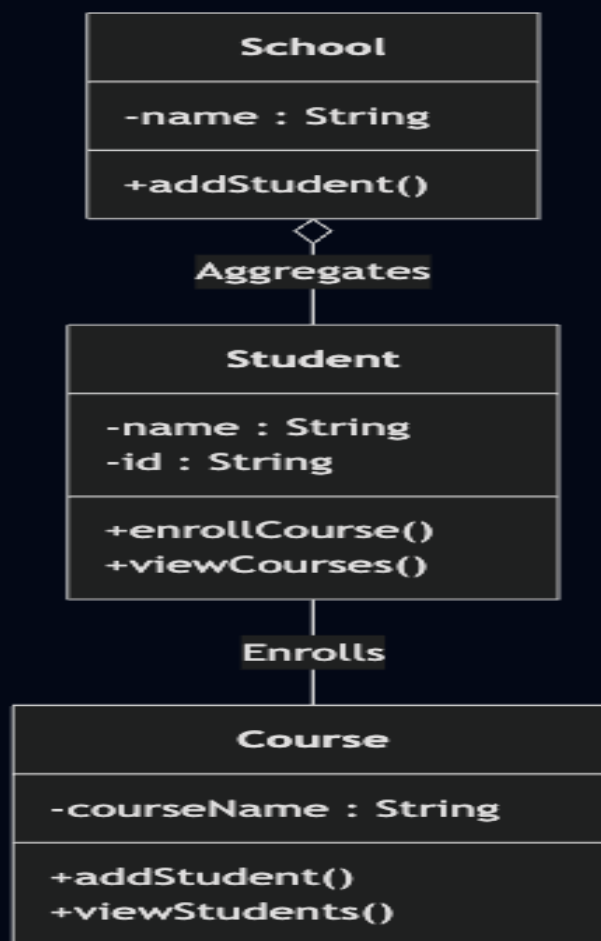
Problem 3: Company and Departments (Composition)

Company

-name : String

+addDepartment()
+getDetails()

◆ Composition

Department

-deptName : String

+addEmployee()
+getDetails()

◆ Composition

Employee

-empName : String
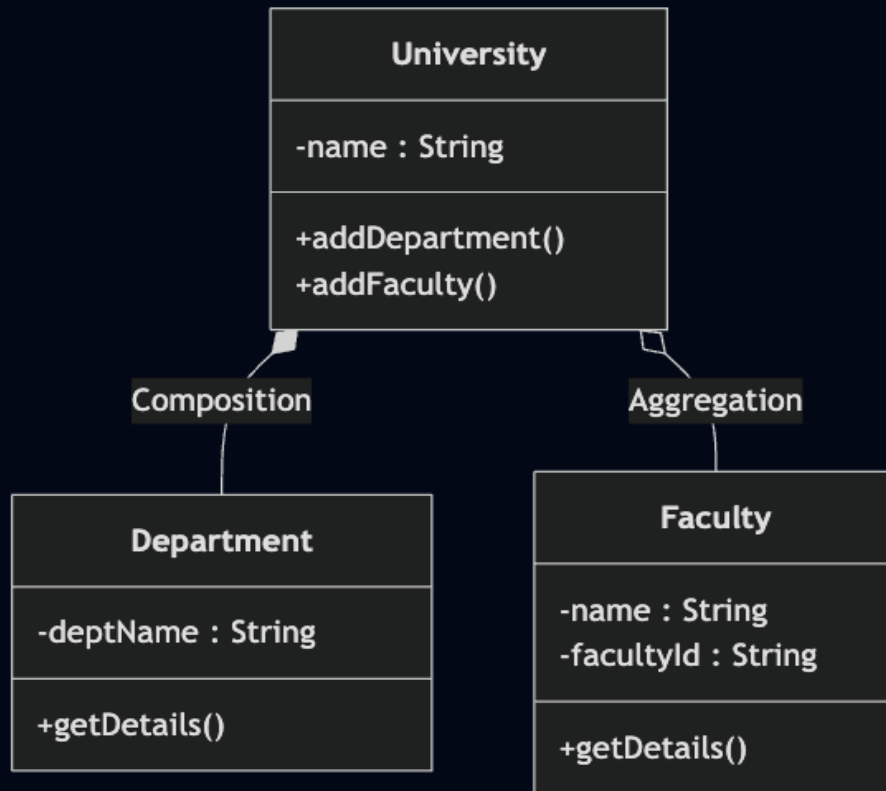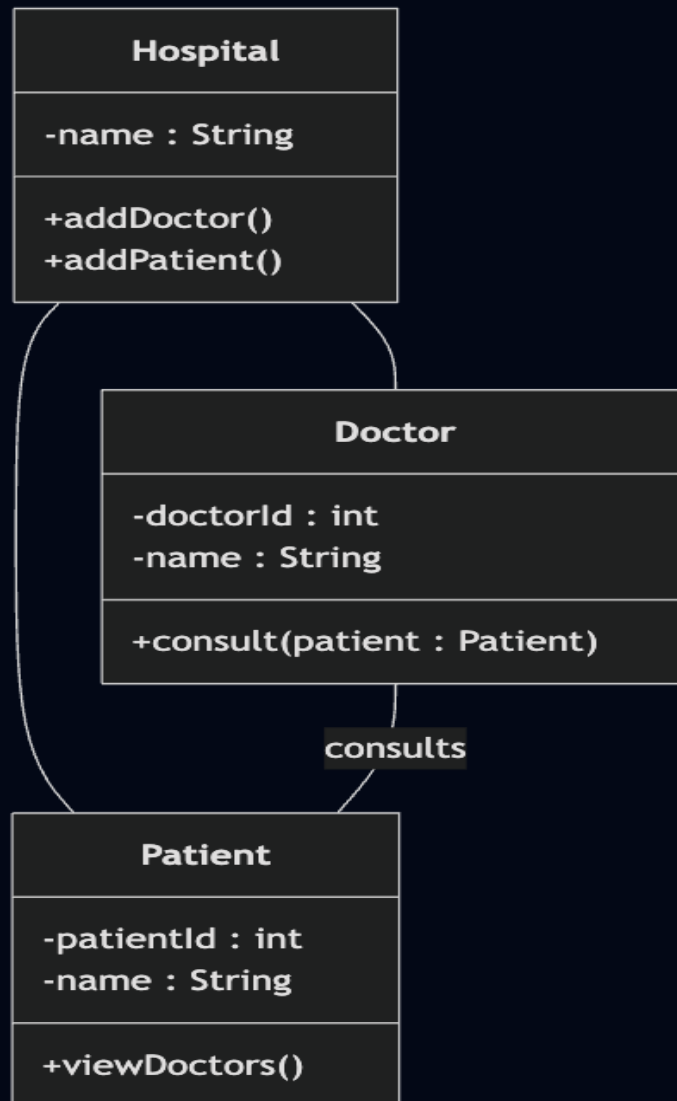-empId : String

+getDetails()

◇ SELF PROBLEMS

Problem 1: School, Students & Courses

Problem 2: University, Faculties & Departments

Problem 3: Hospital, Doctors & Patients

Hospital

-name : String

+addDoctor()
+addPatient()

Doctor

-doctorId : int
-name : String

+consult(patient : Patient)

consults

Patient

-patientId : int
-name : String

+viewDoctors()

Problem 4: E-commerce Platform

Problem 5: University Management System