

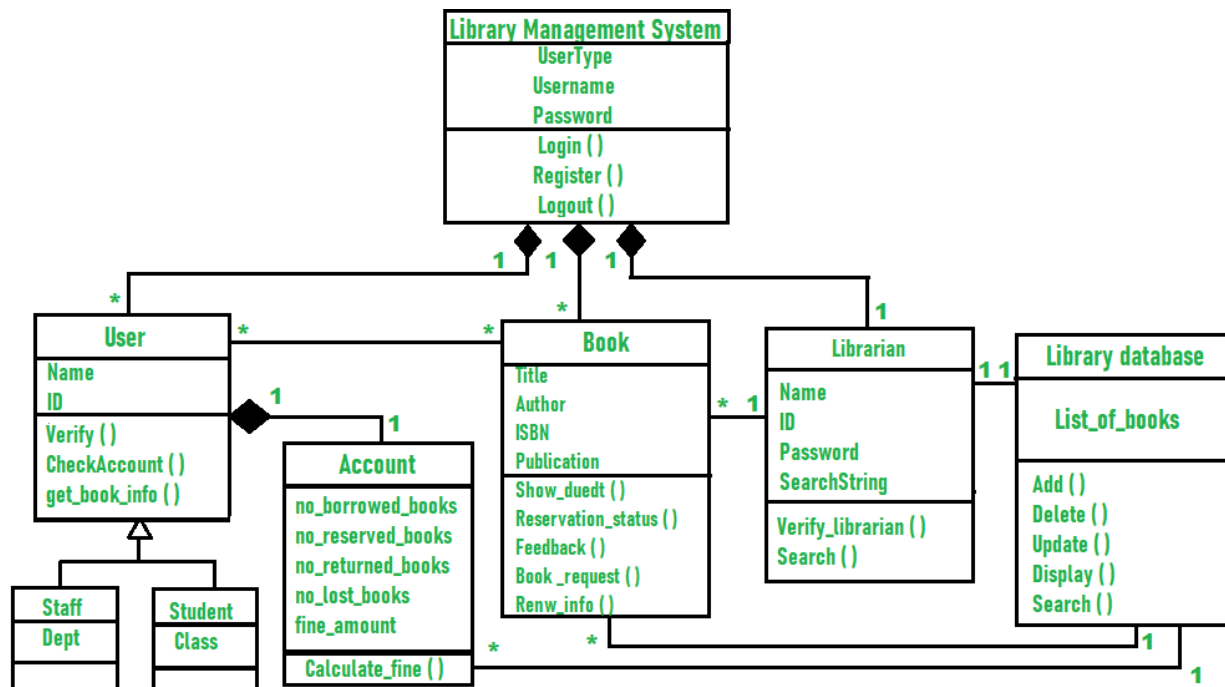
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## ◆ Assisted Problems

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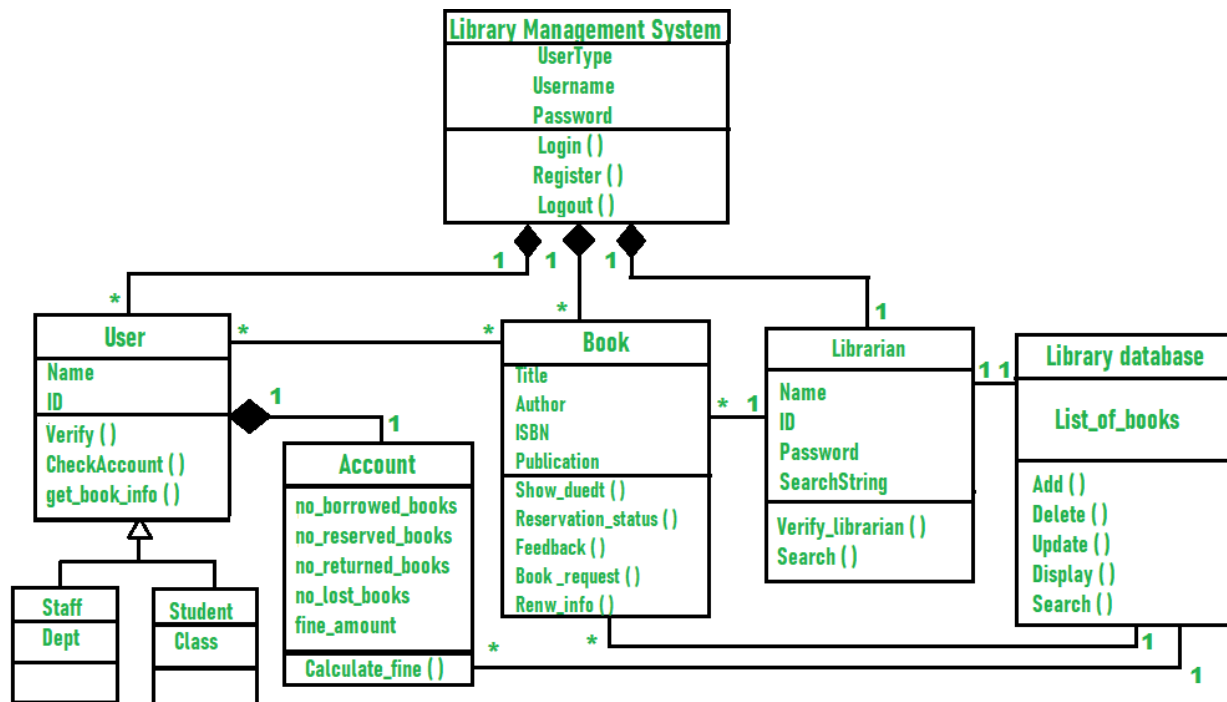
### 📖 Problem 1: Library and Books (Aggregation)

#### Class Diagram



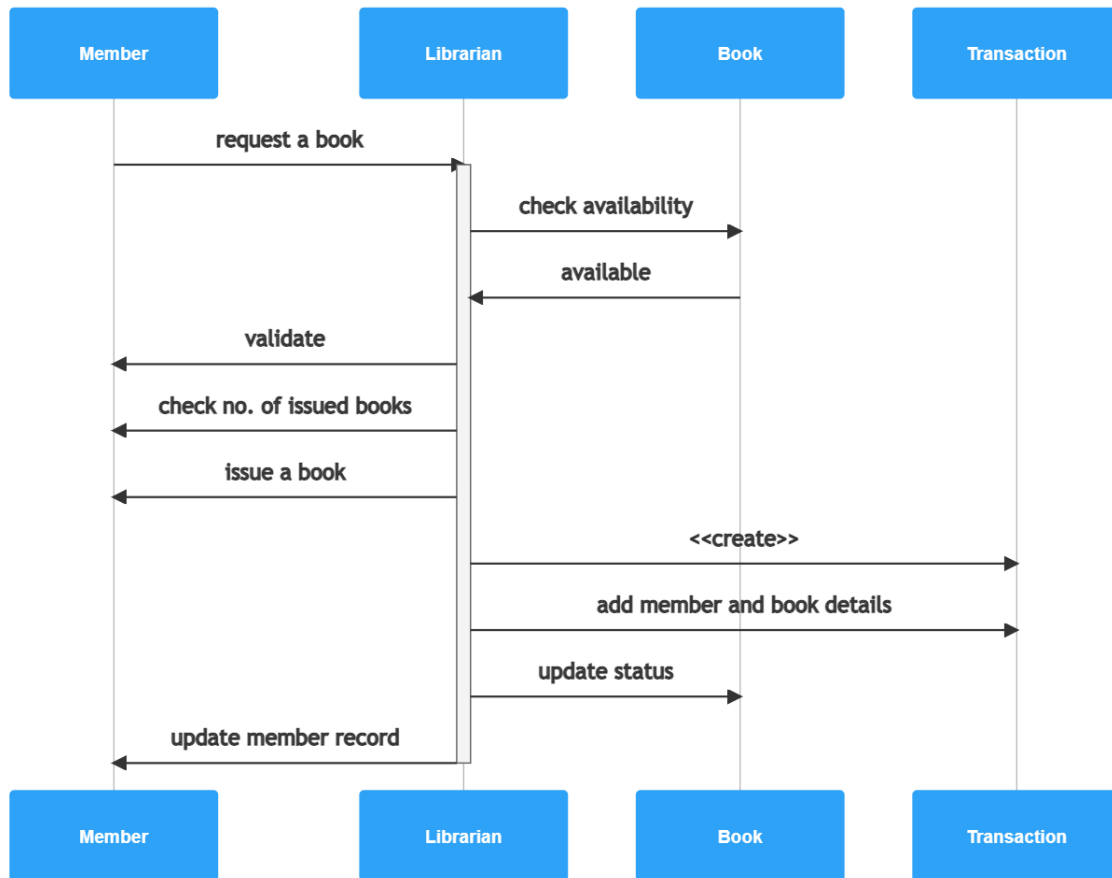
### CLASS DIAGRAM FOR LIBRARY MANAGEMENT SYSTEM

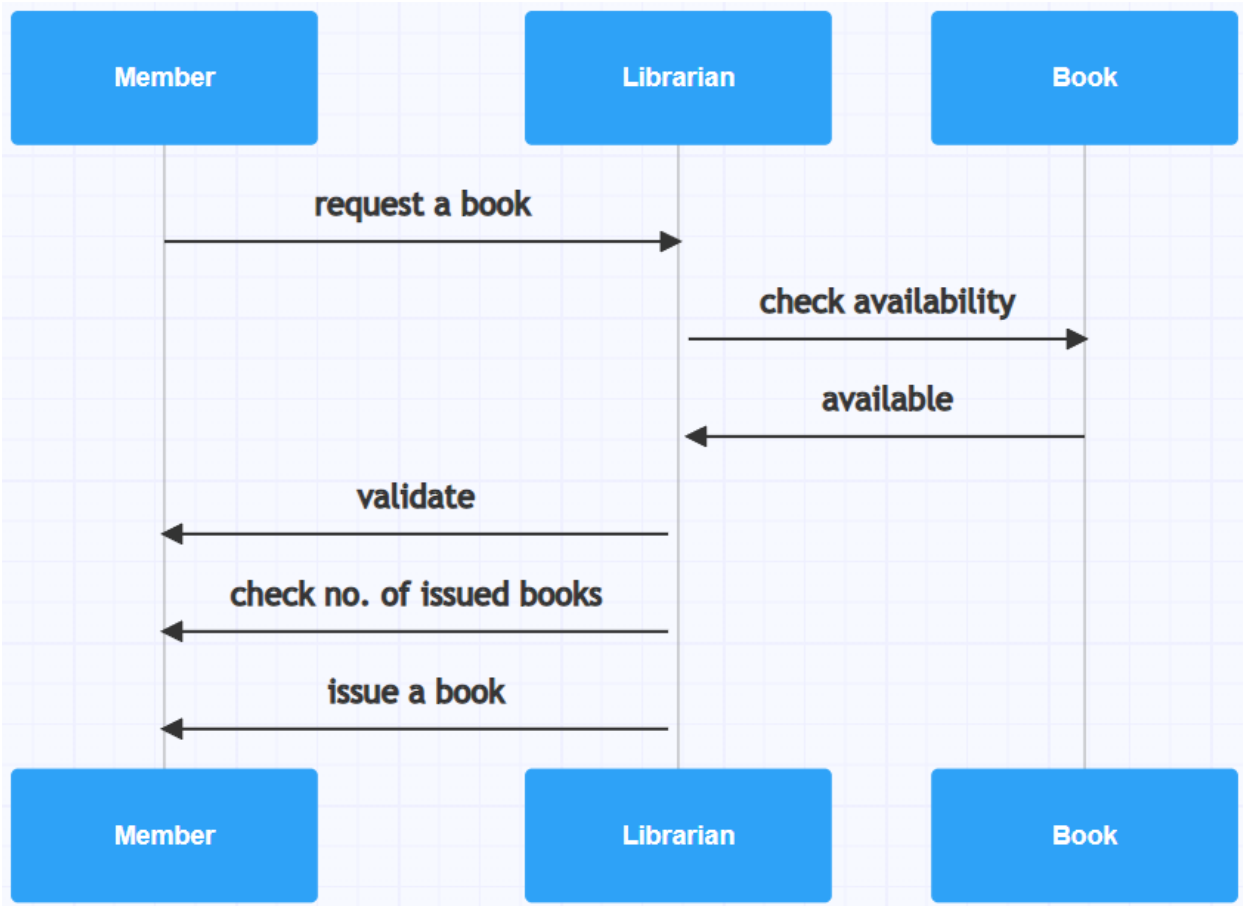
#### Object Diagram



**CLASS DIAGRAM FOR LIBRARY MANAGEMENT SYSTEM**

## Sequence Diagram

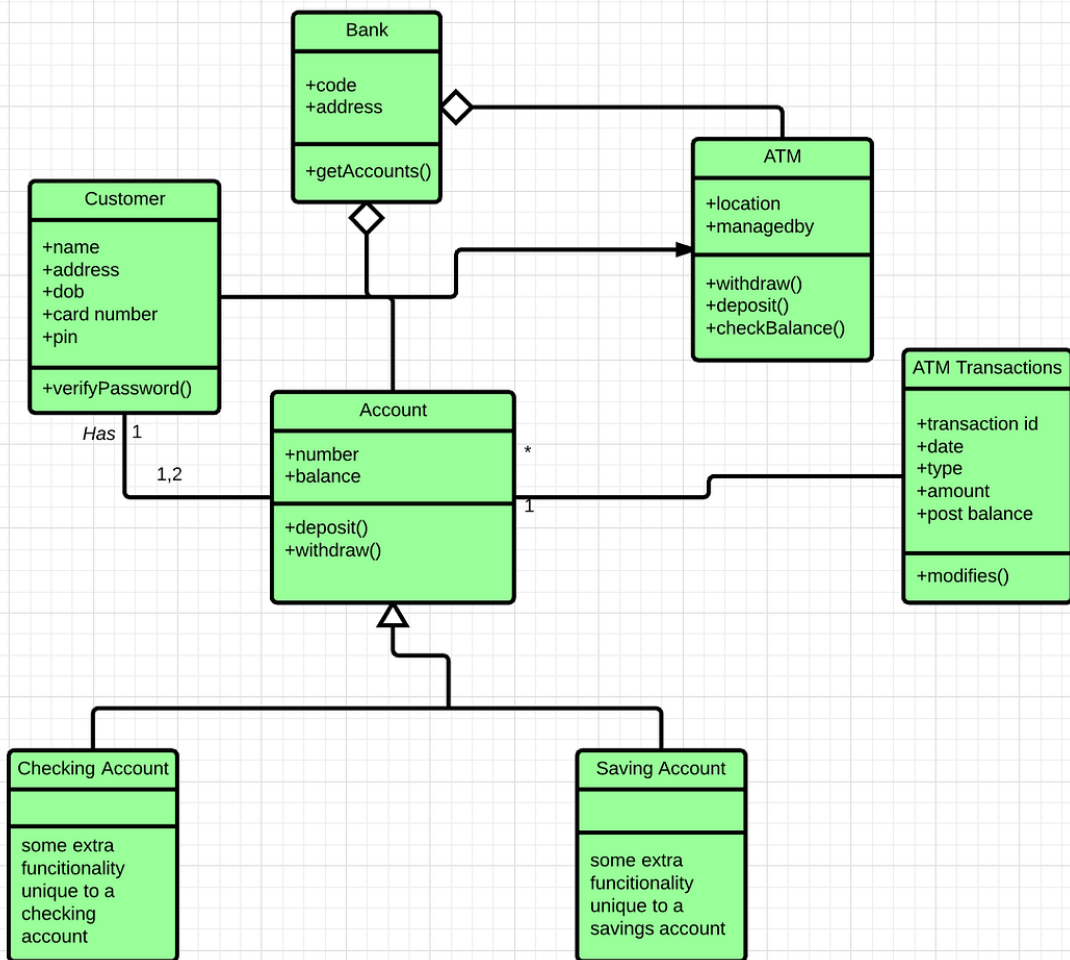


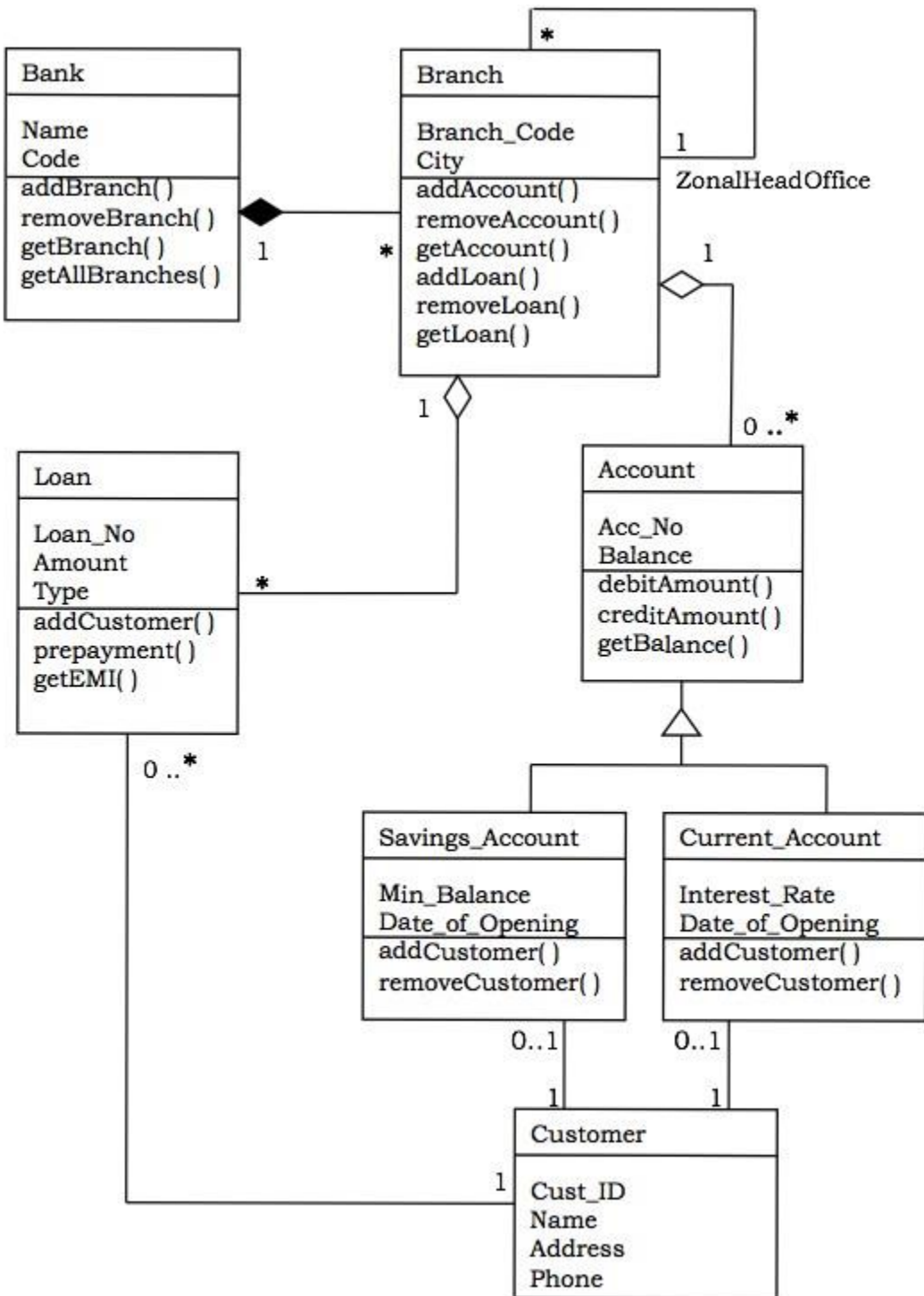


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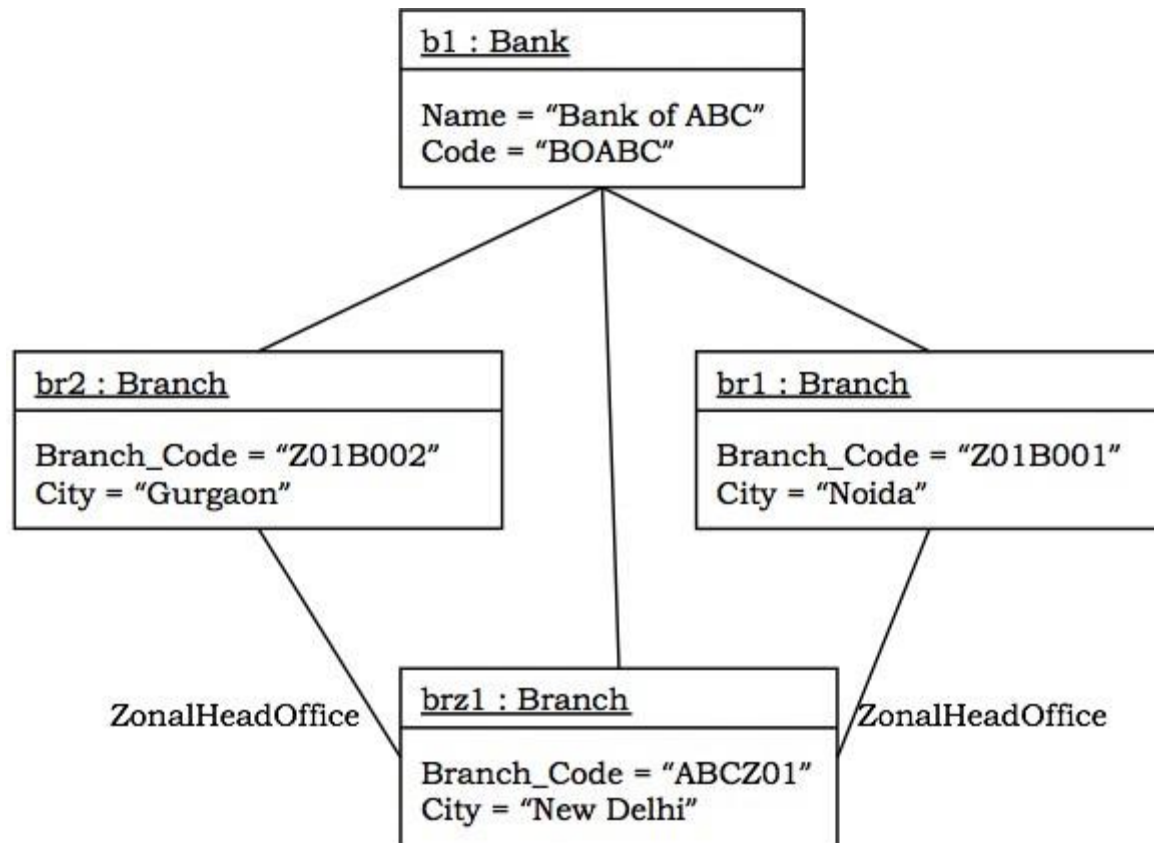
## Problem 2: Bank and Account Holders (Association)

Class Diagram

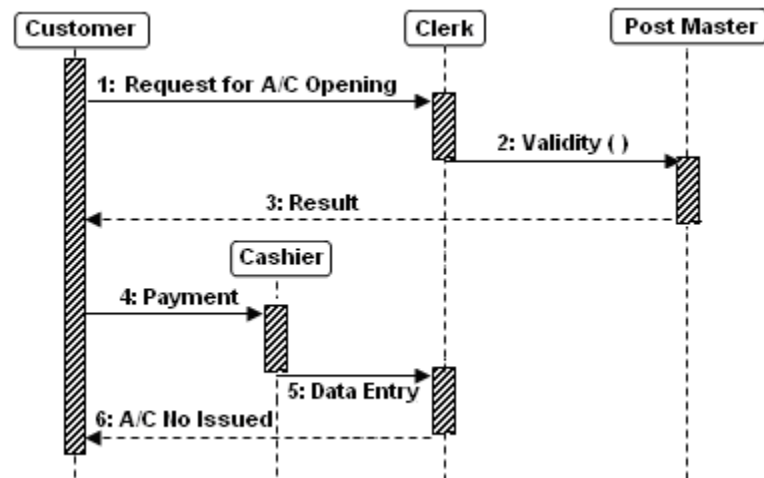


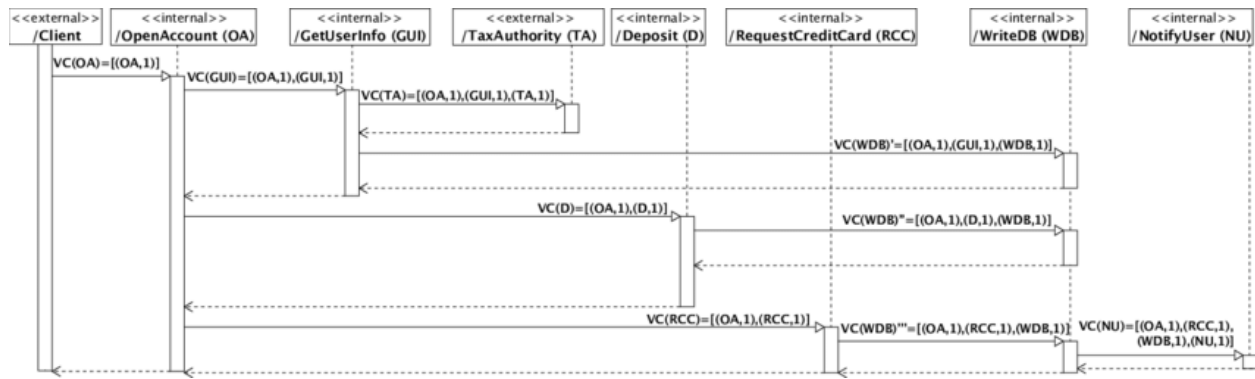


**Object Diagram**



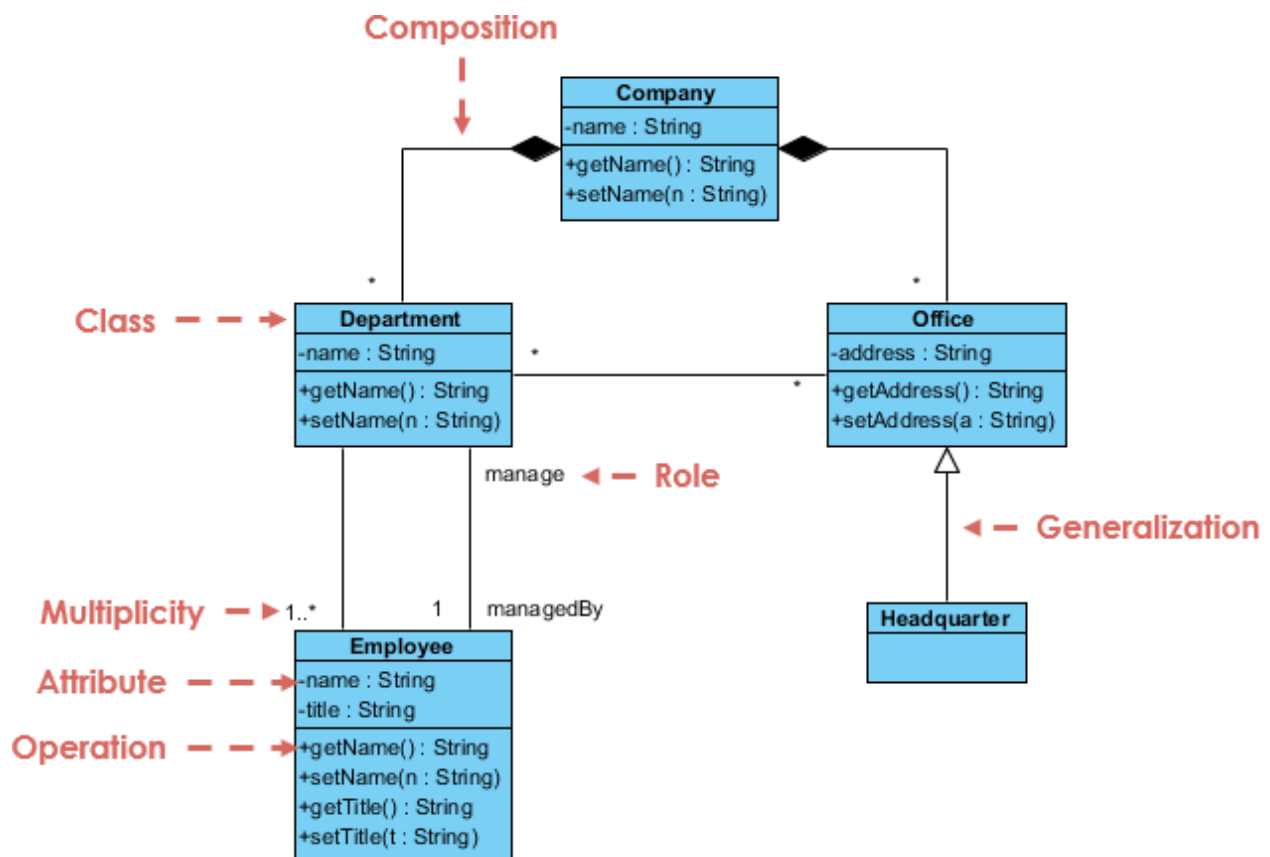
## Sequence Diagram



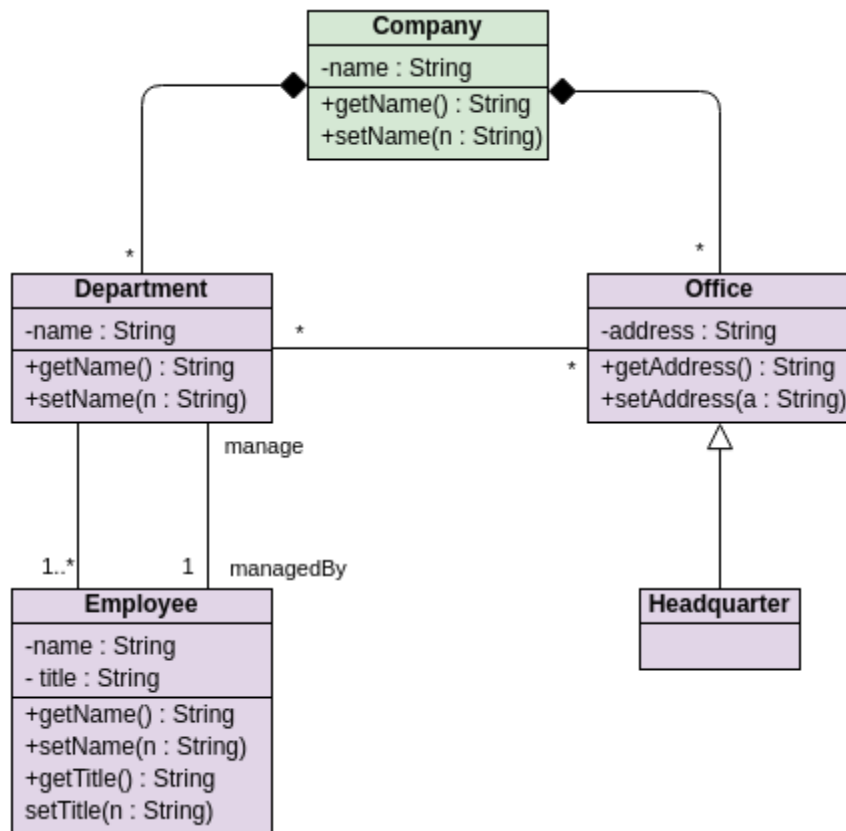


## Problem 3: Company and Departments (Composition)

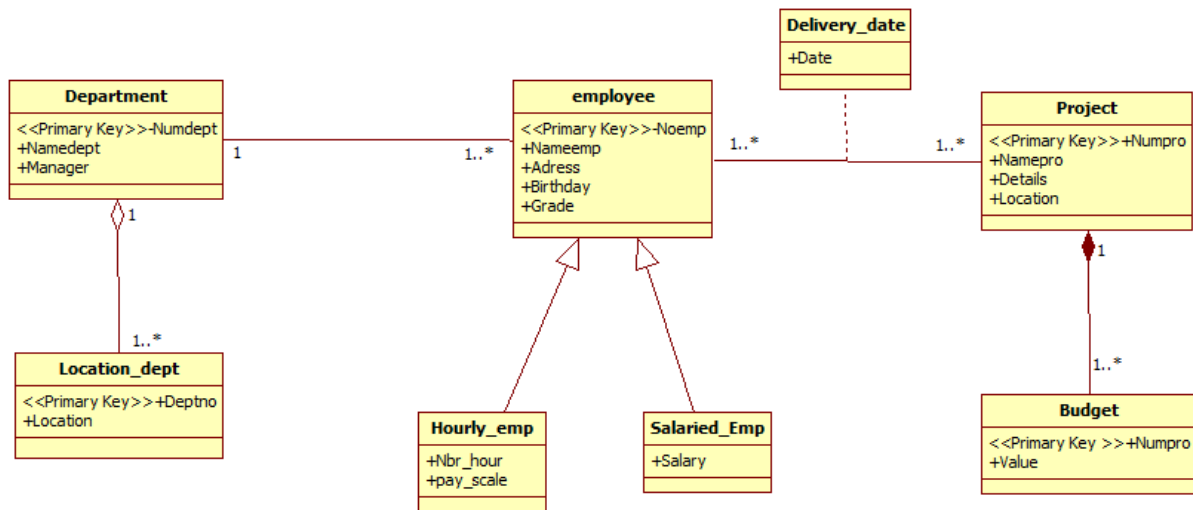
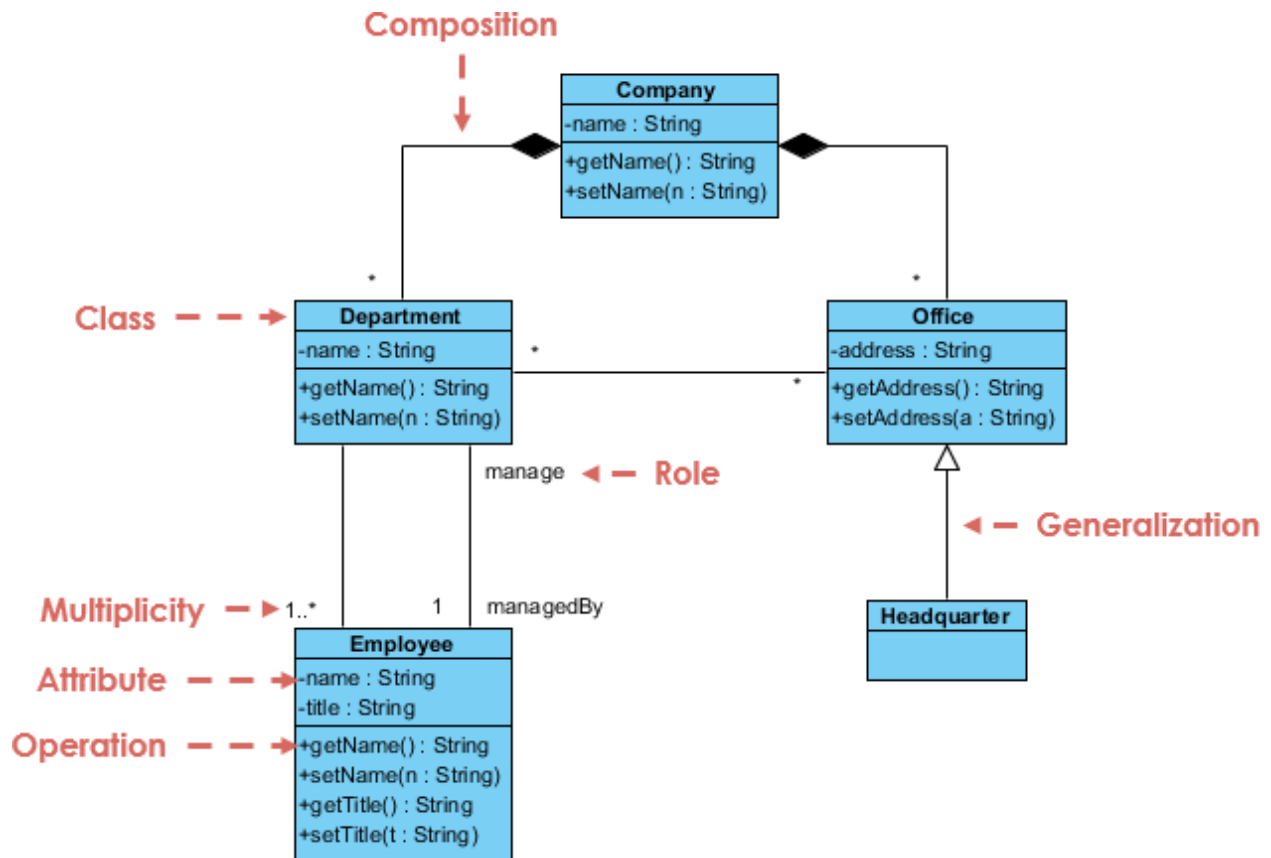
### Class Diagram



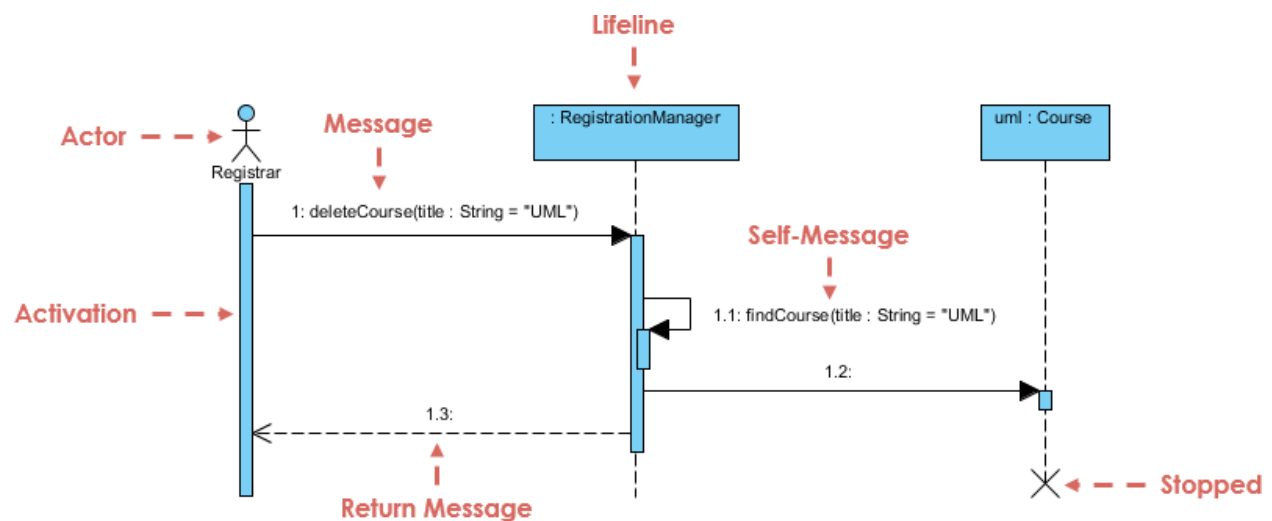
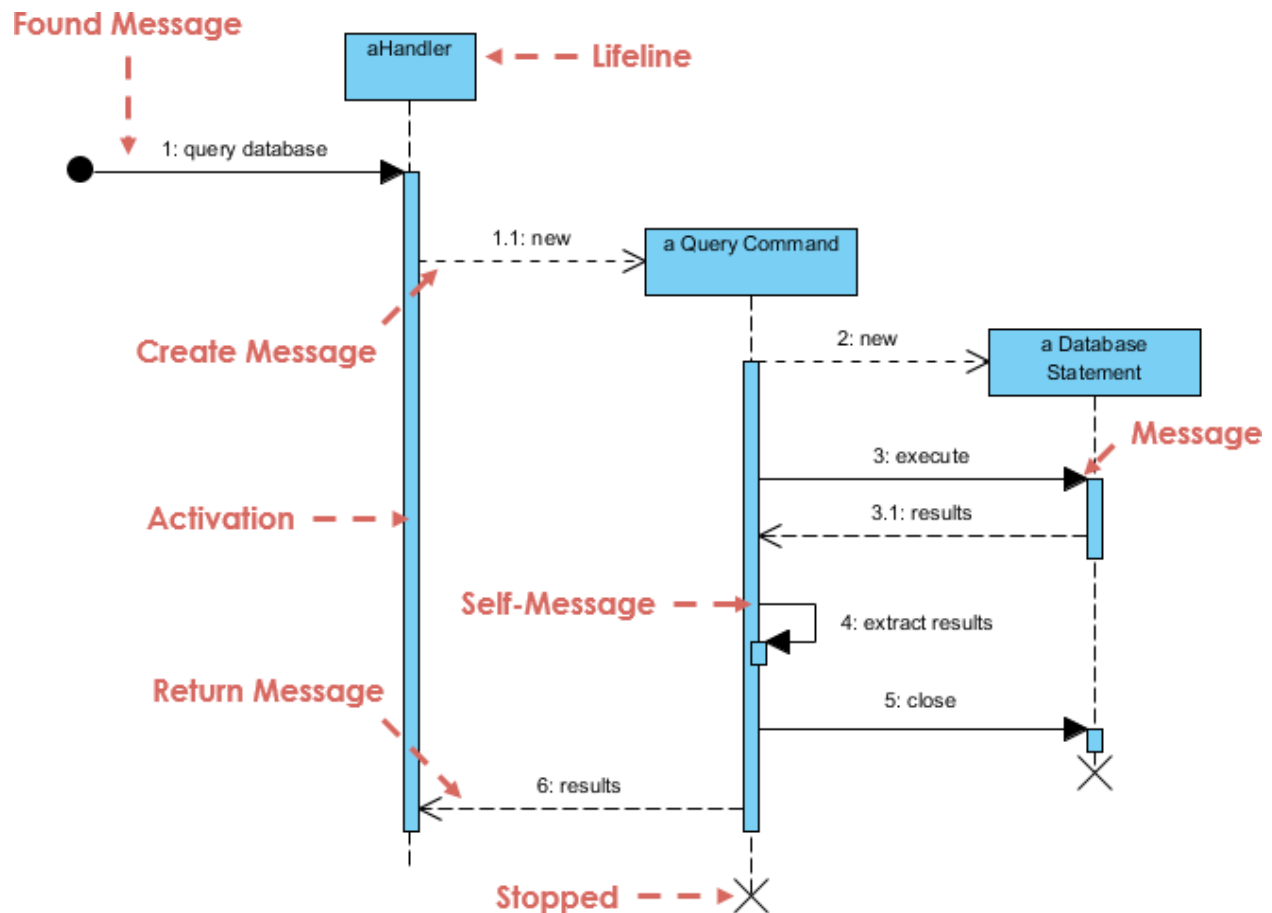




**Object Diagram**



## Sequence Diagram

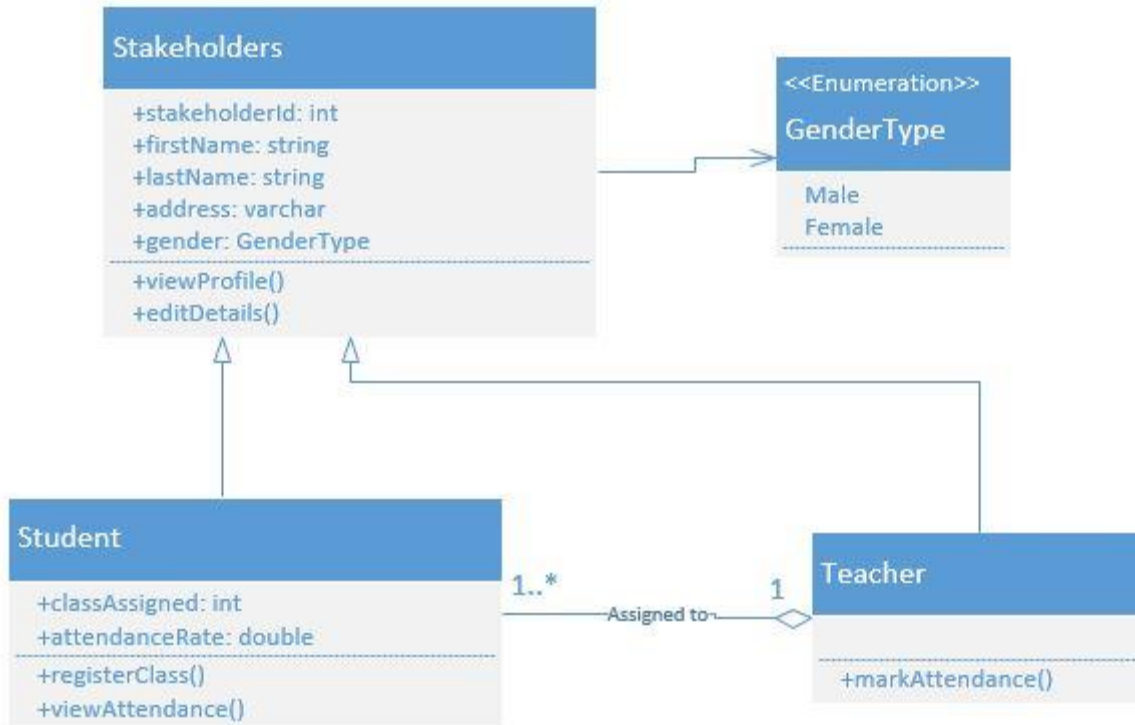


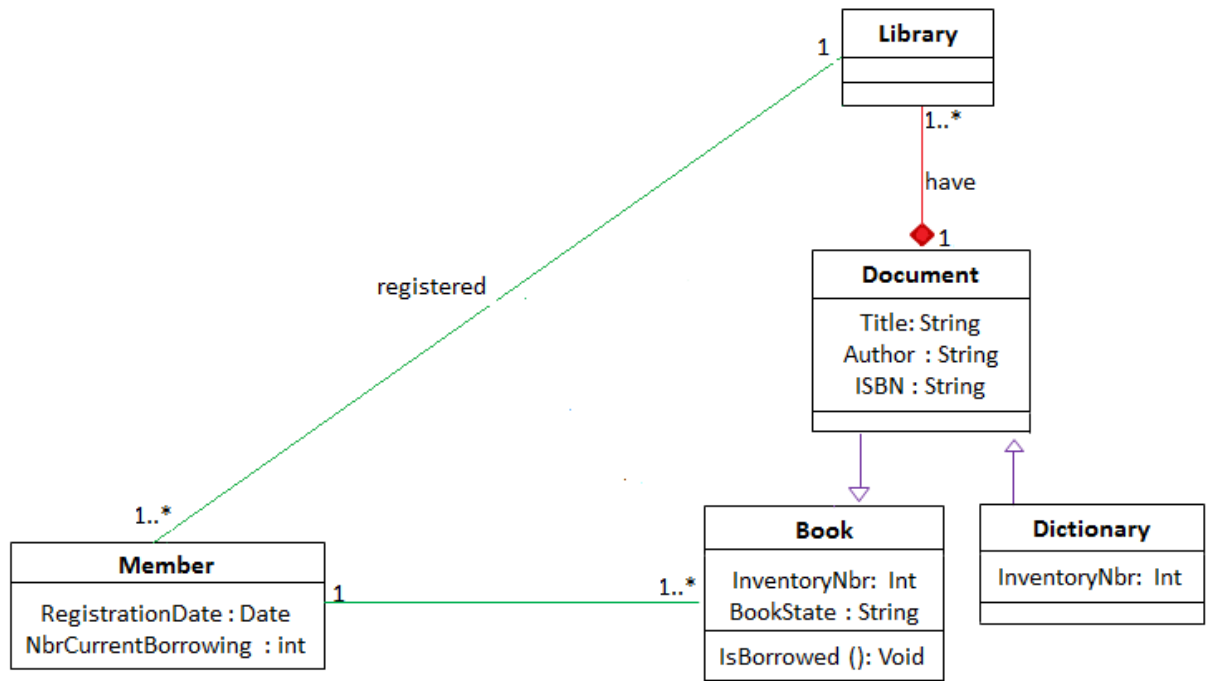
## Self Problems

# Problem 1: School, Students & Courses

(Association + Aggregation)

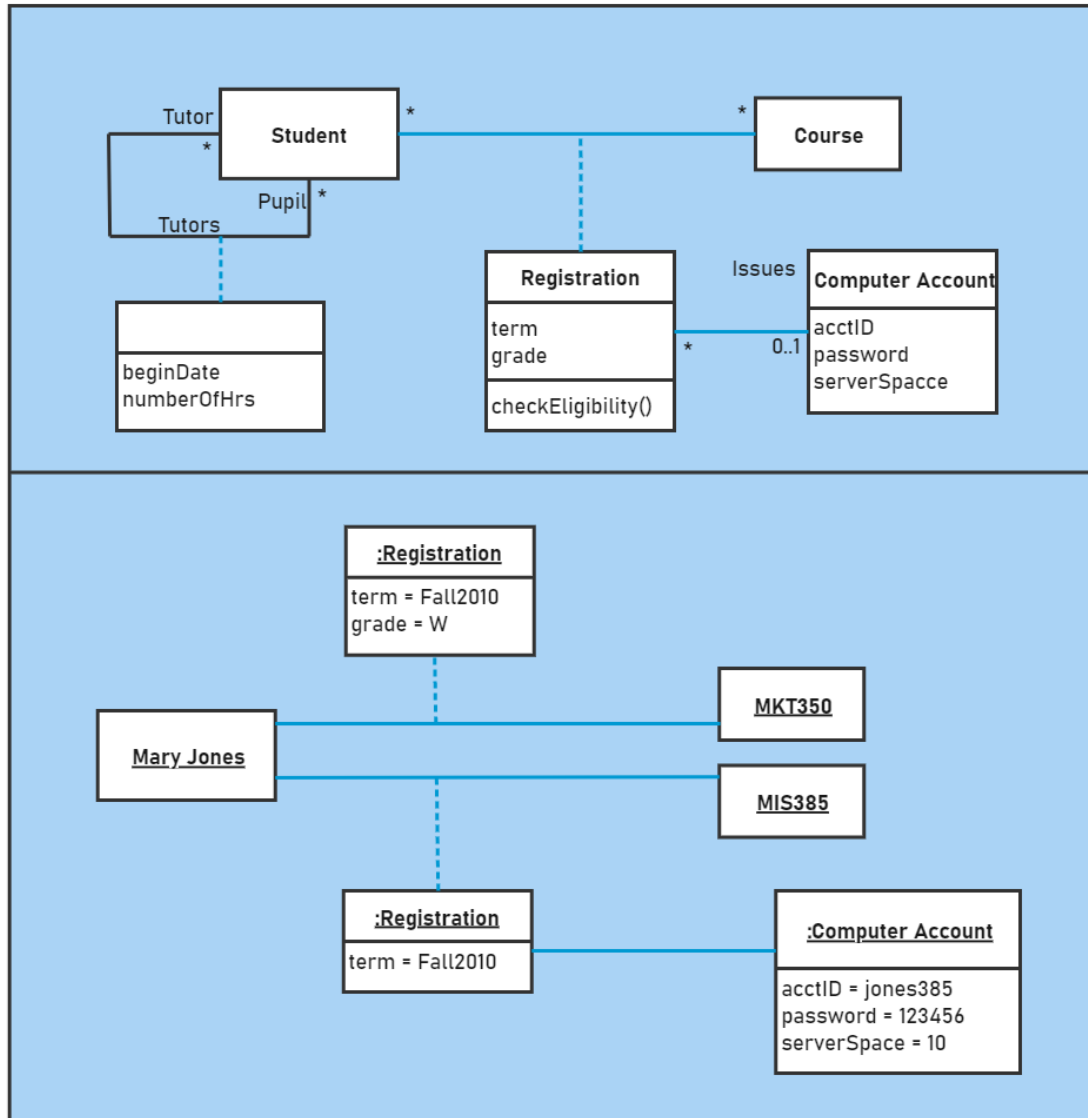
## Class Diagram



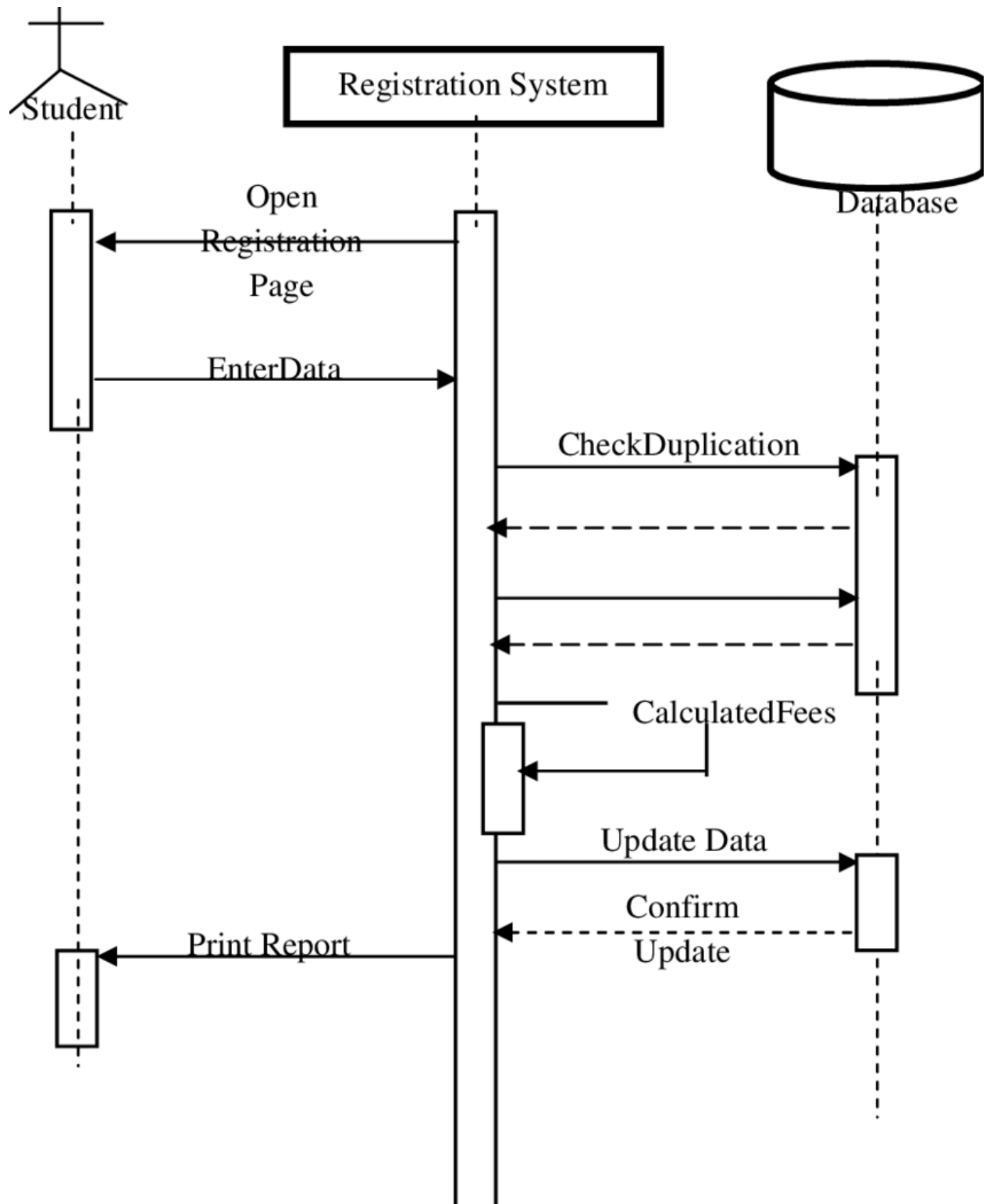


**Object Diagram**

# Student Registration UML Diagram



## Sequence Diagram

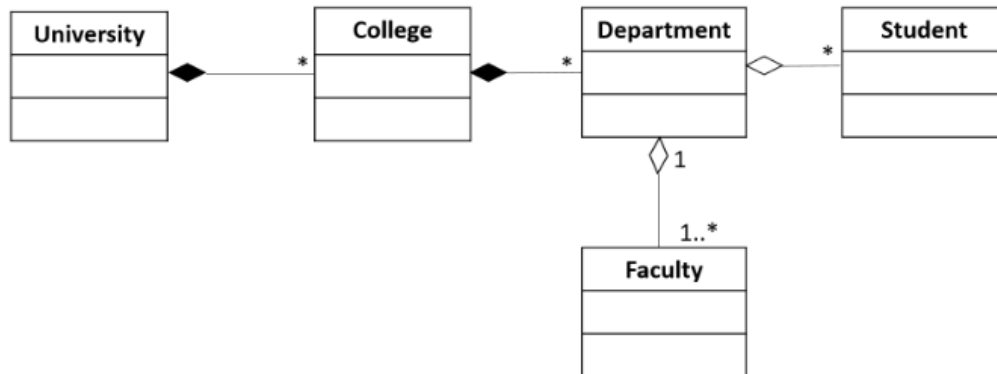


## 🎓 Problem 2: University, Faculties & Departments

(Composition + Aggregation)

### Class Diagram

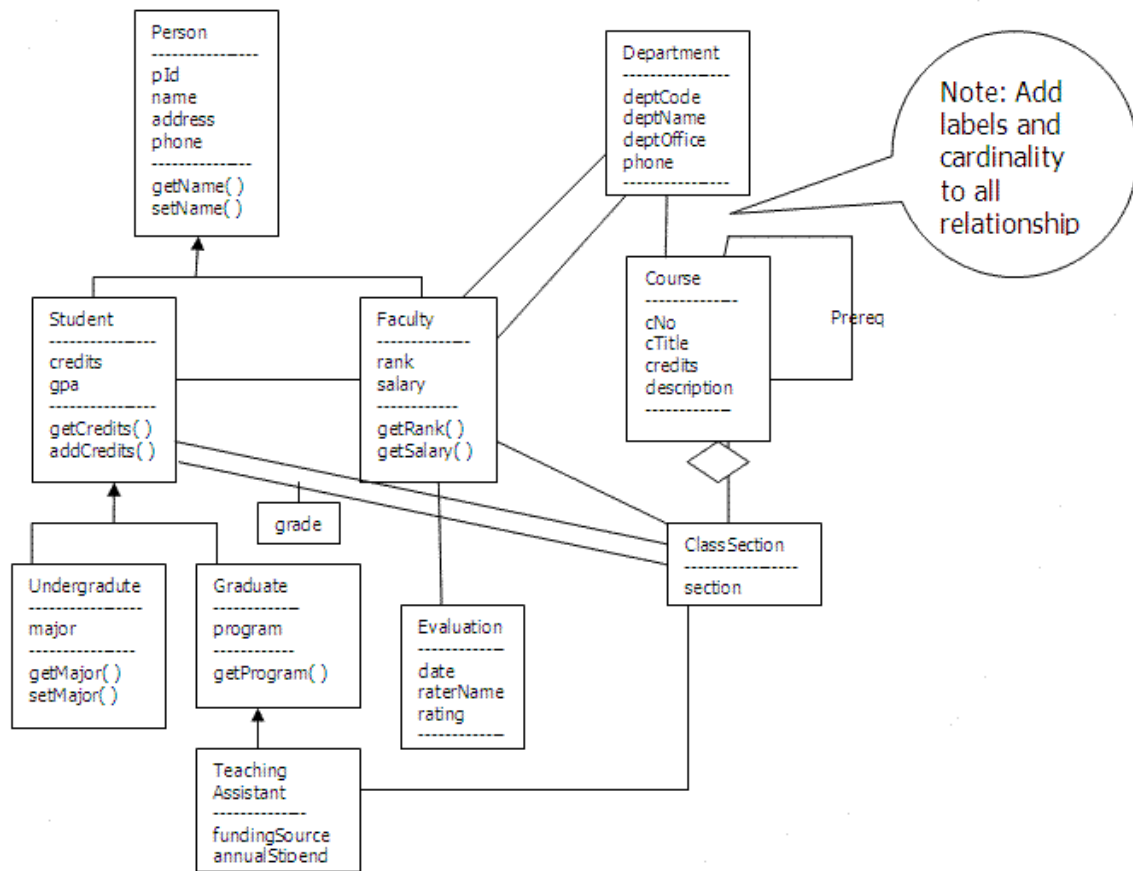
Given below is UML diagrams of classes with interactions.



Based on the diagram, what is the relationship between Department and Student?

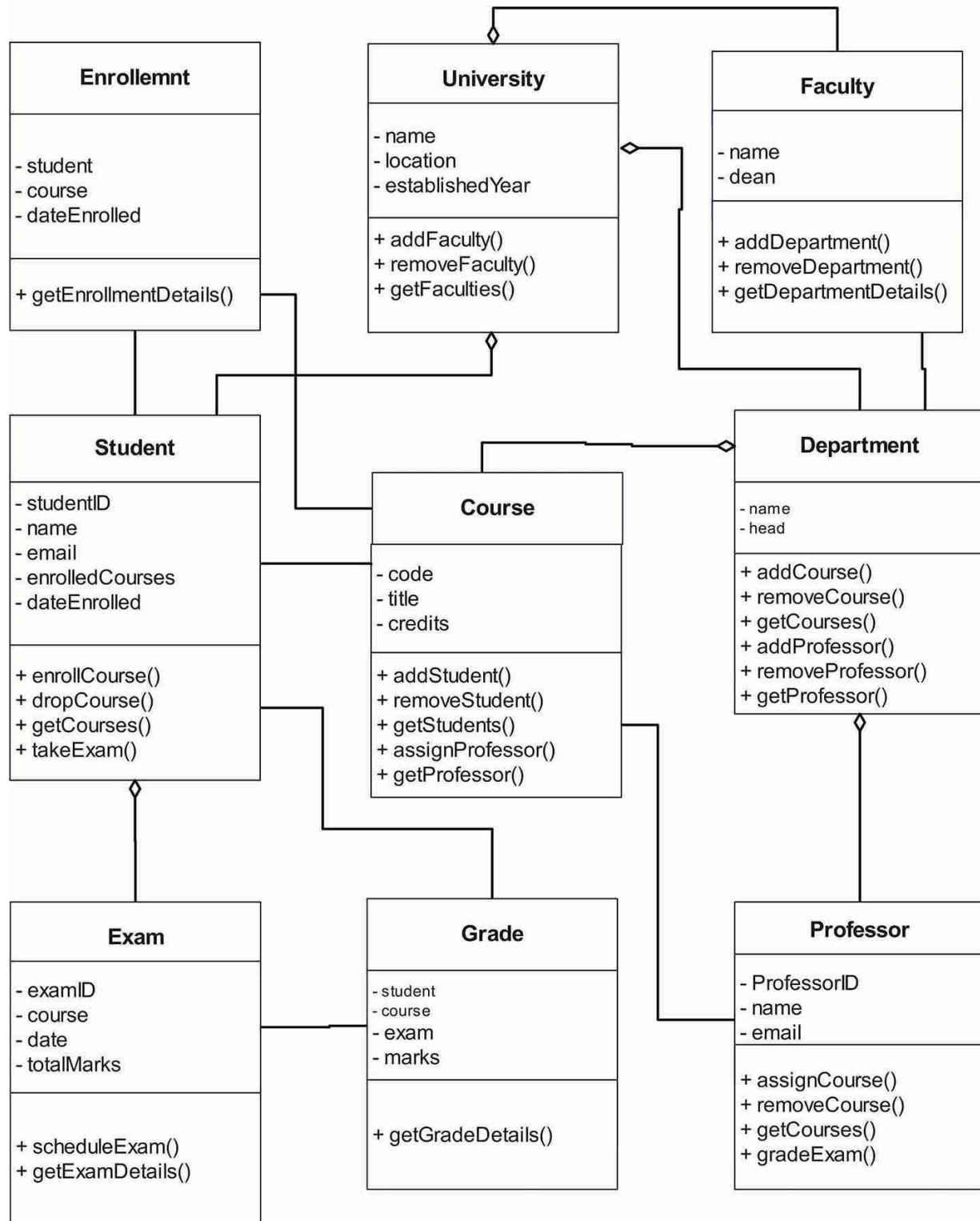
- ☐ Dependency (uses)
- ☐ Aggregation
- ☐ Composition
- ☐ Plain Association



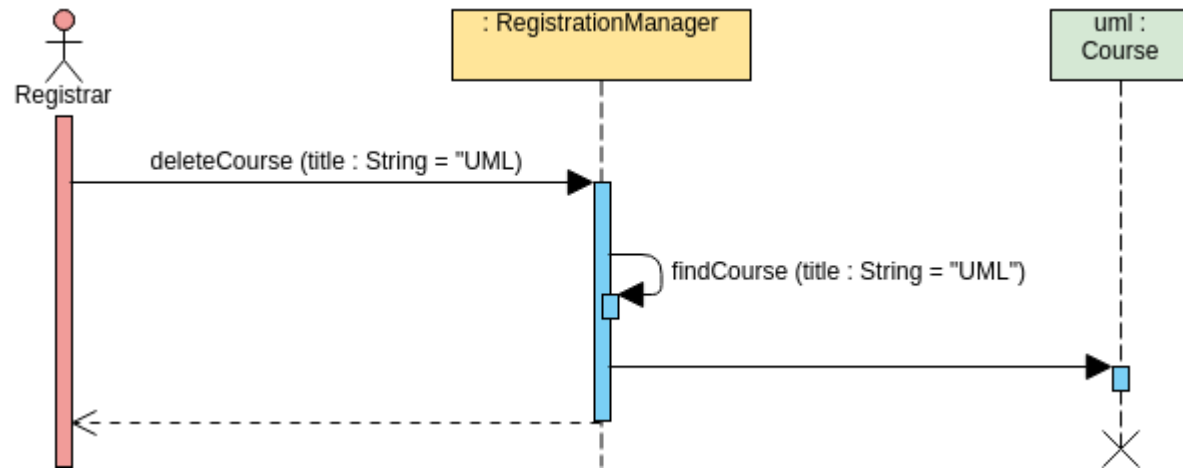


## Object Diagram

## Class Diagram for University Management



## Sequence Diagram



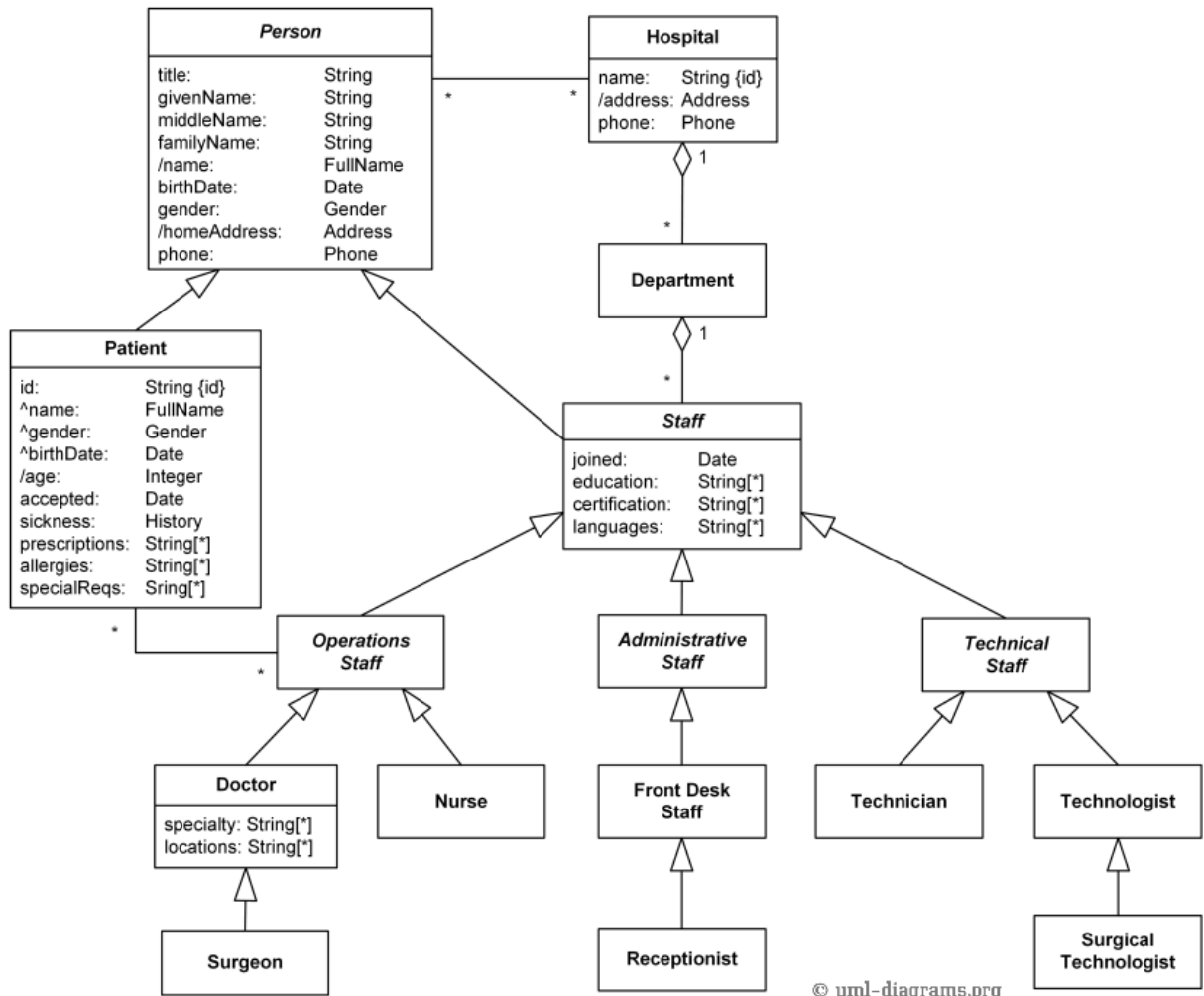
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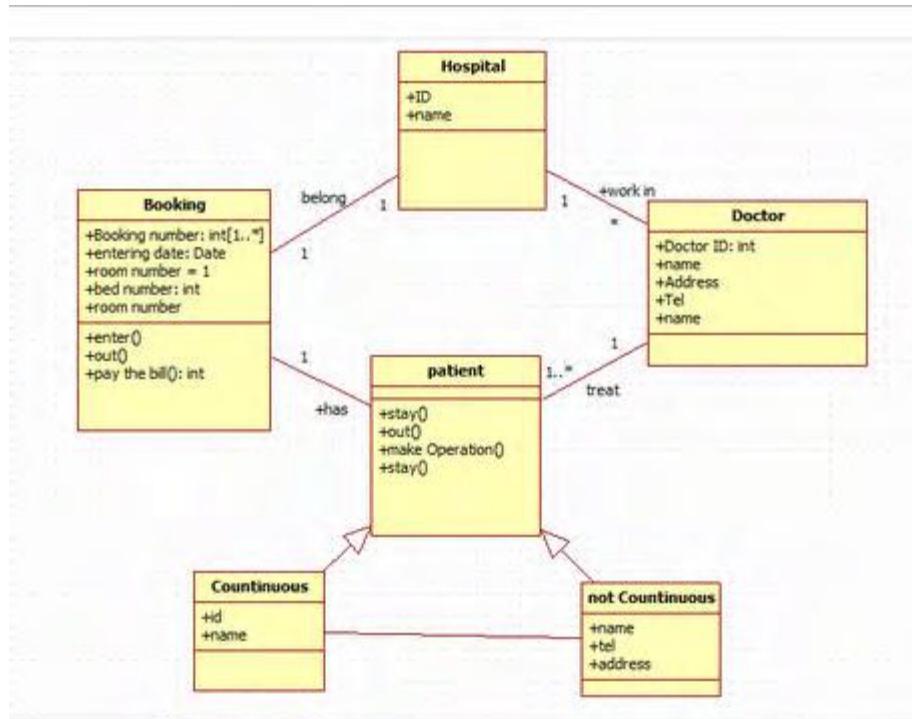
## Problem 3: Hospital, Doctors & Patients

(Association + Communication)

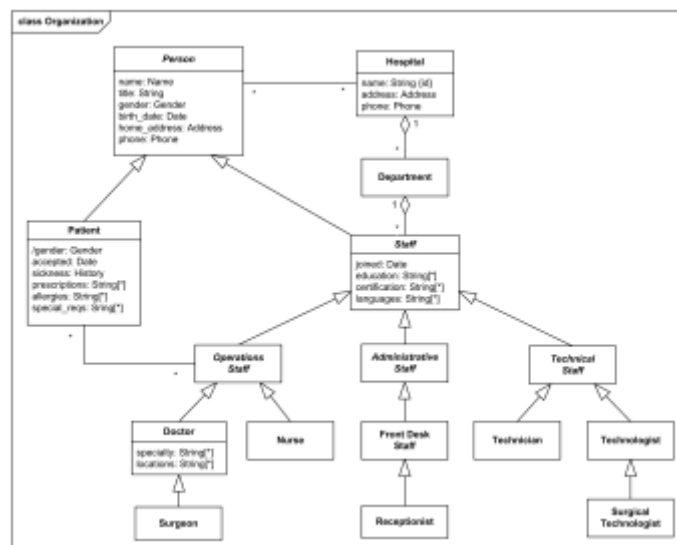
### Class Diagram

# class Organization

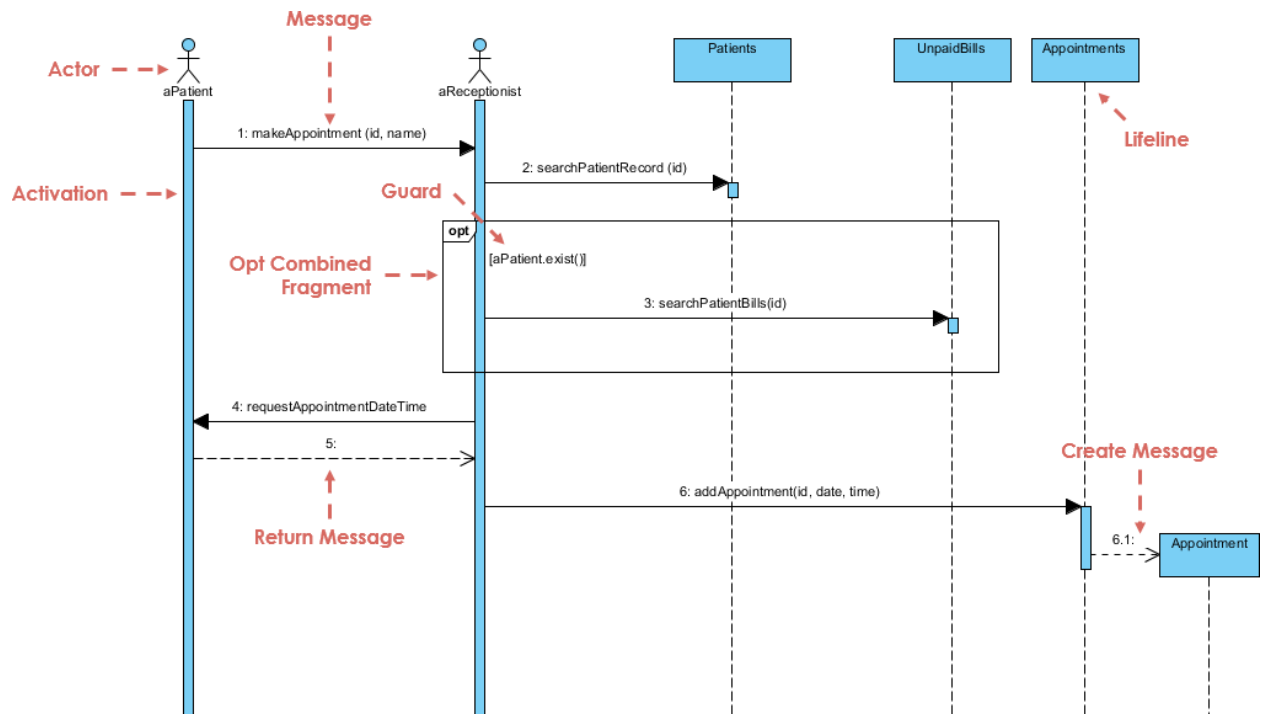
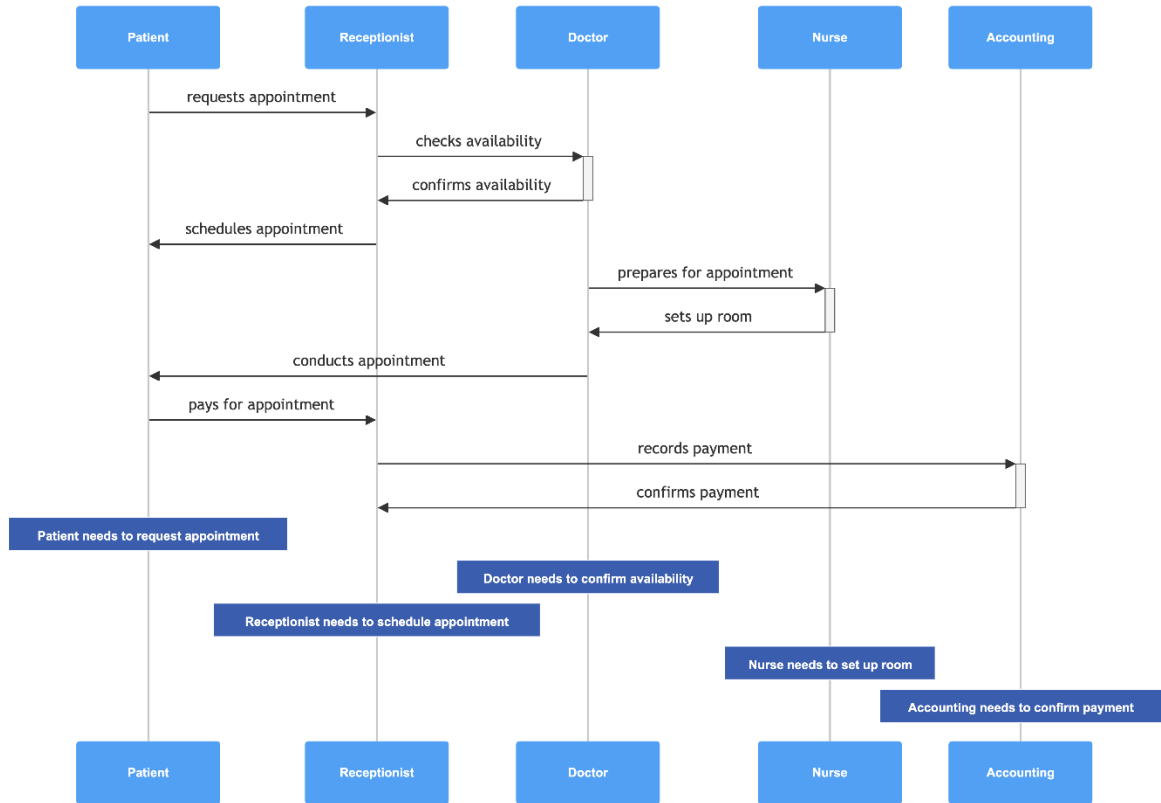




**Object Diagram**

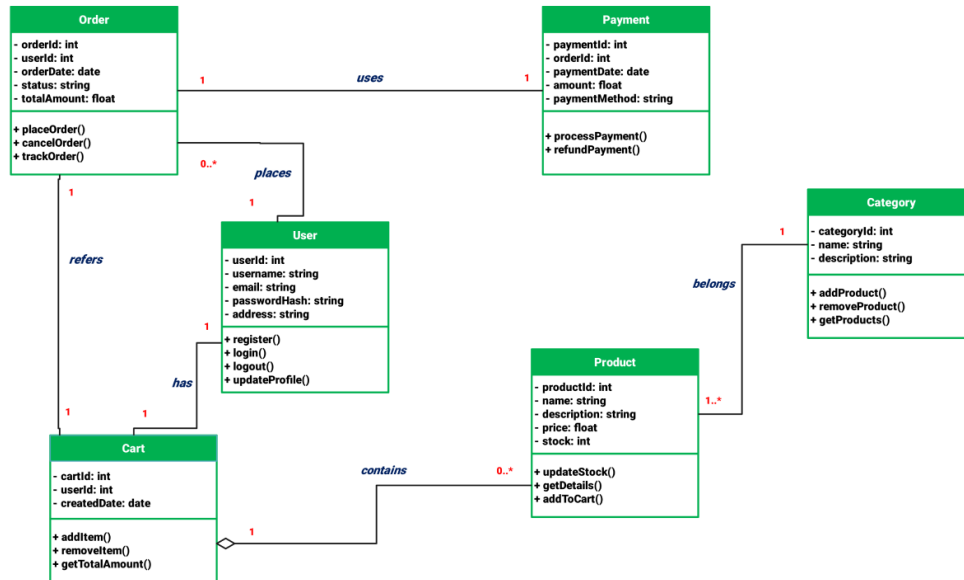


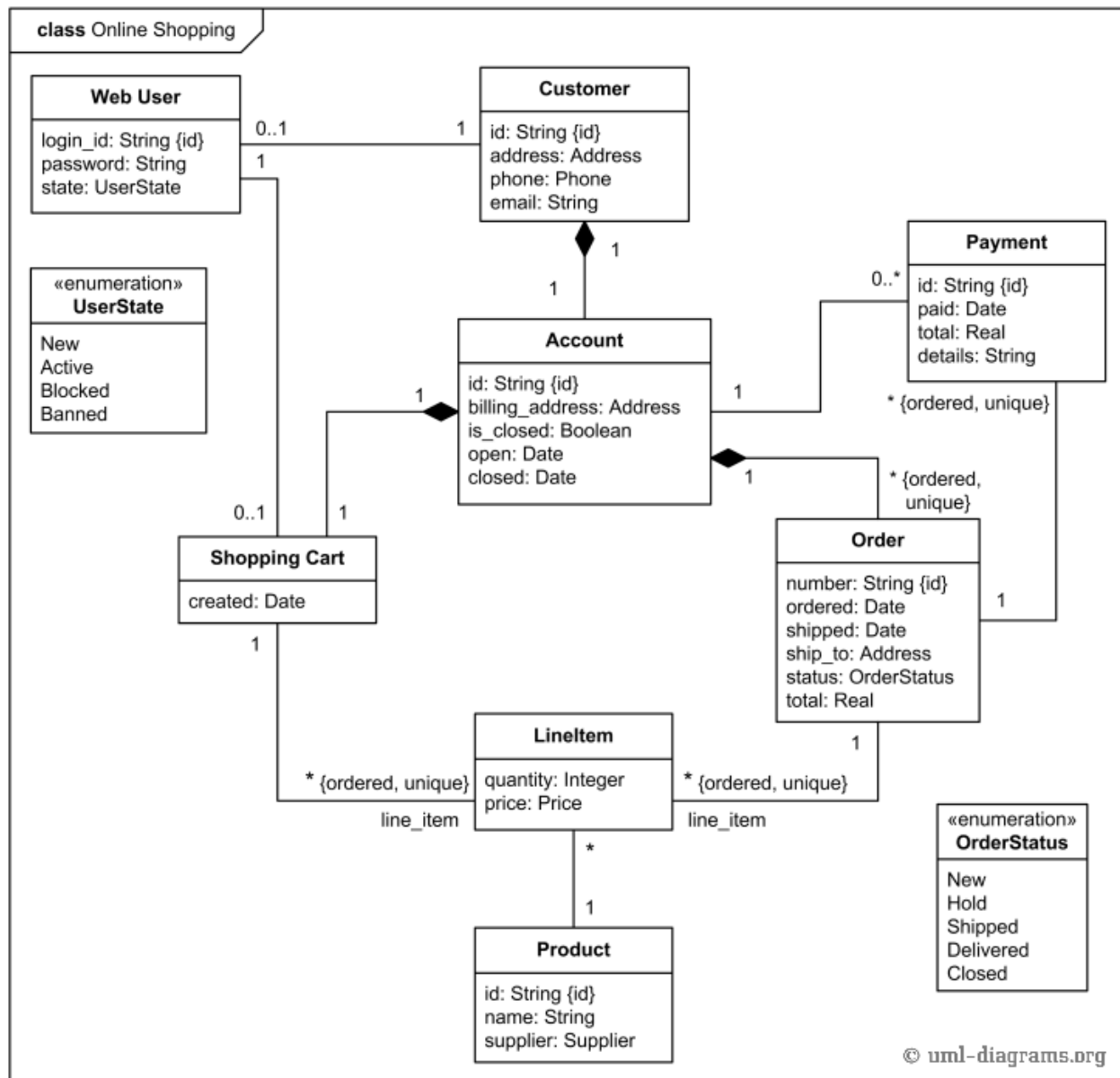
**Sequence Diagram**



# Problem 4: E-Commerce Platform

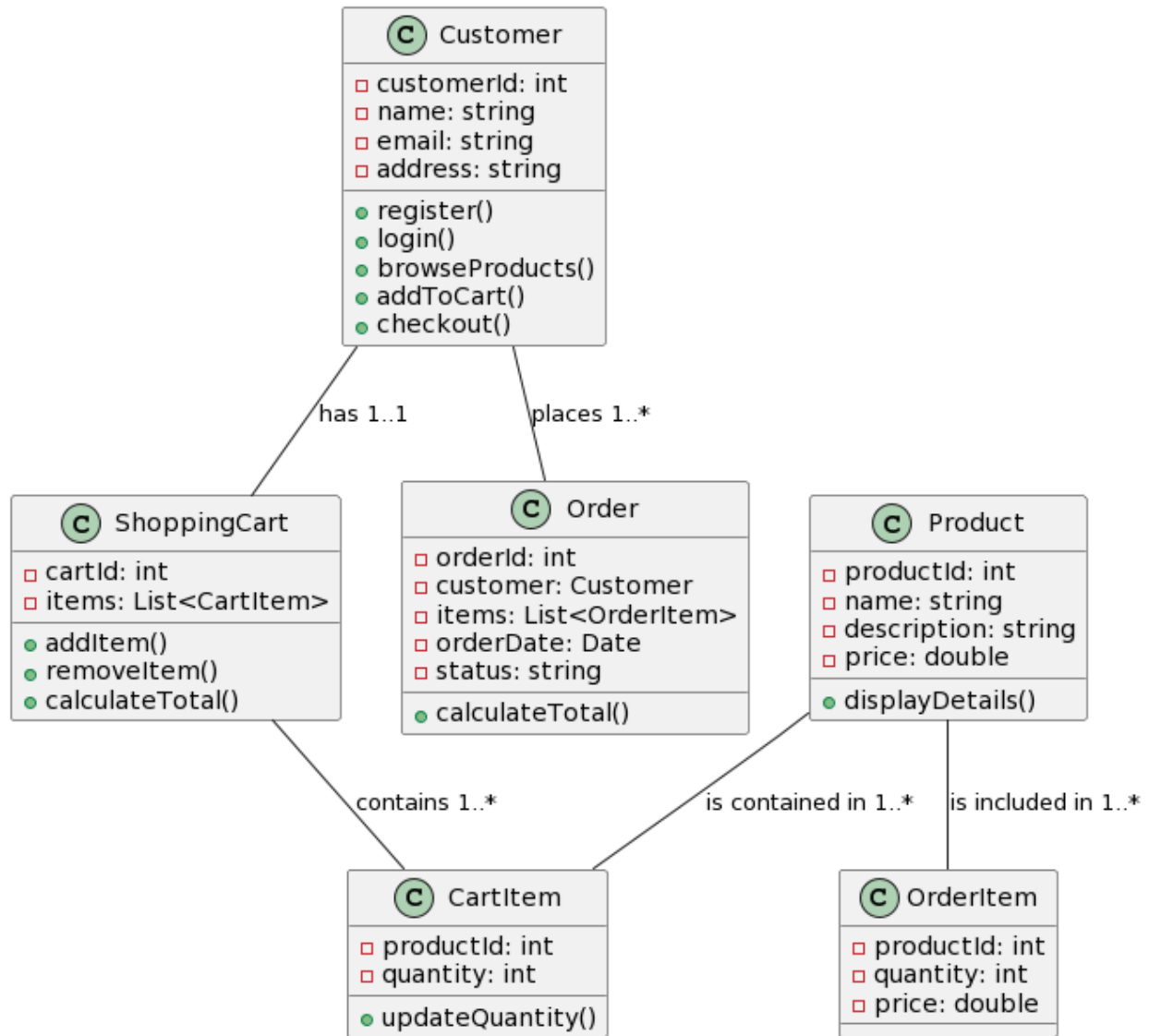
## Class Diagram



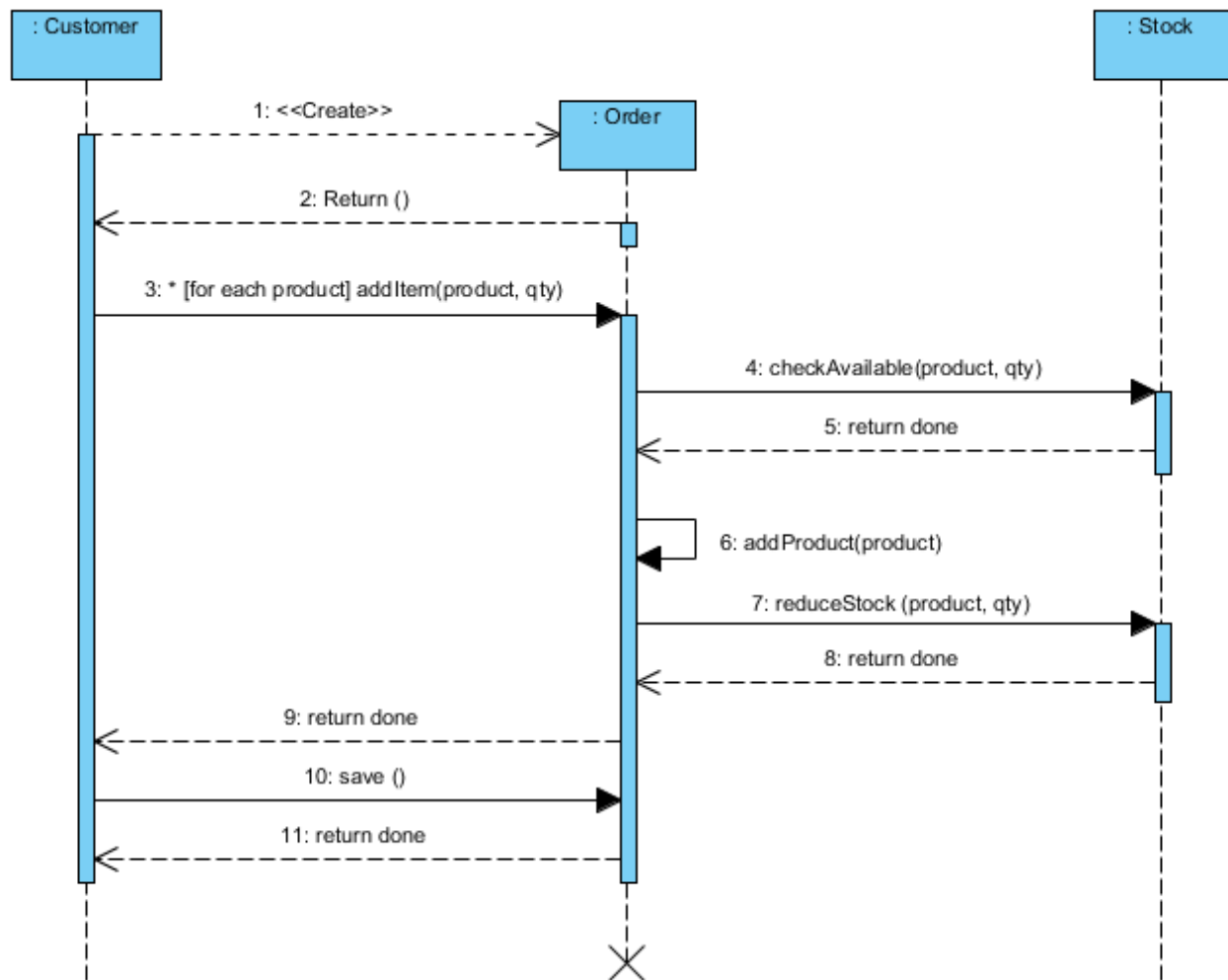


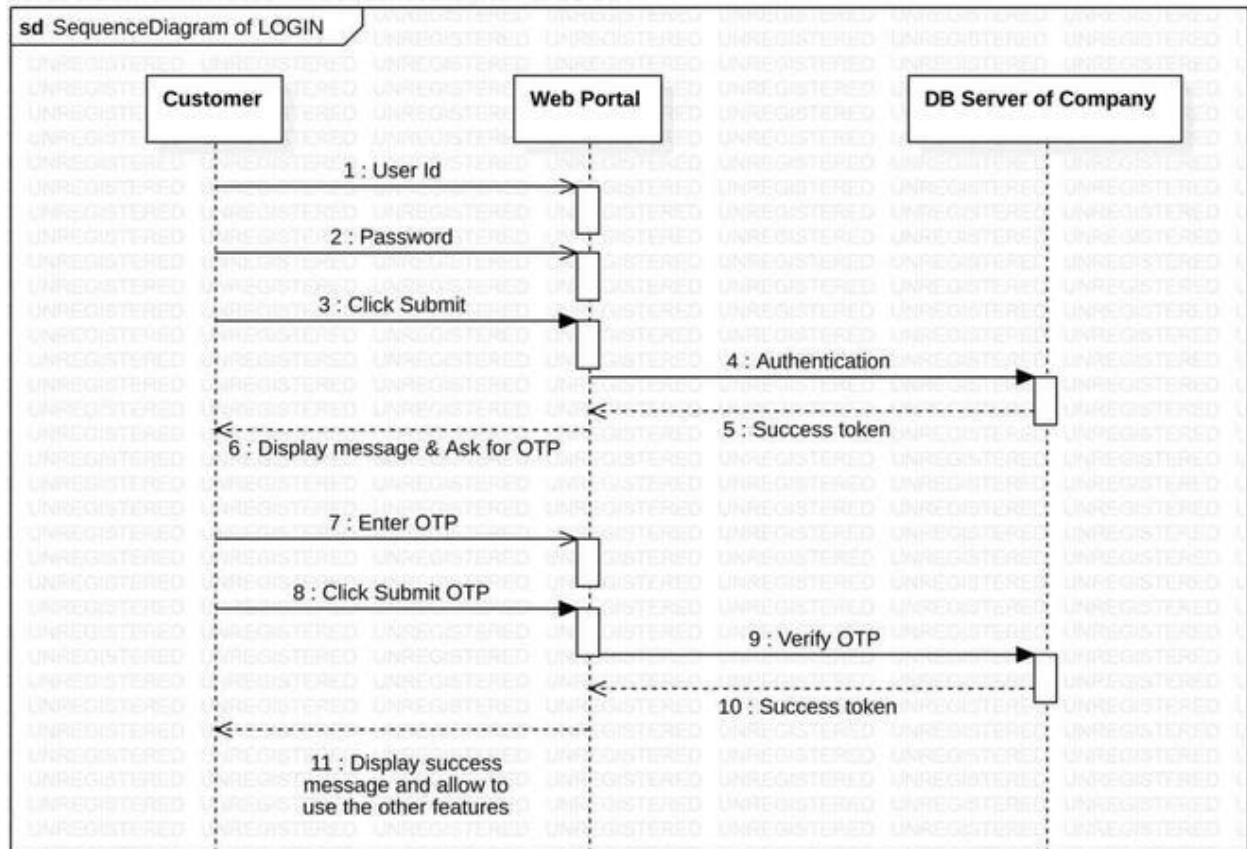
**Object Diagram**







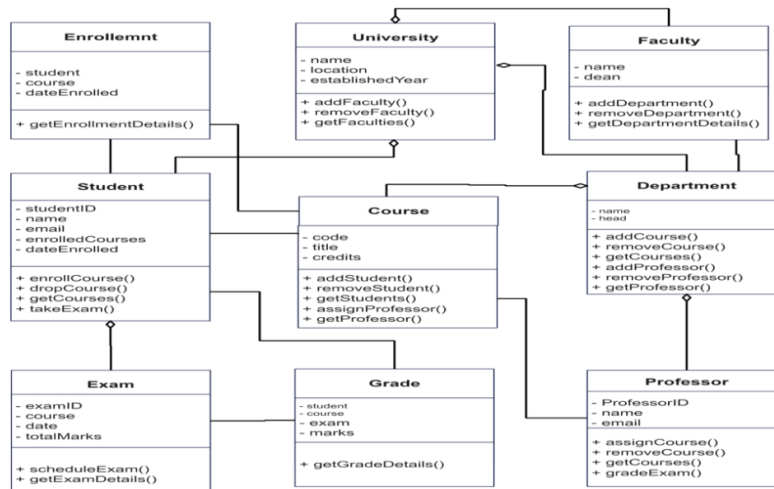




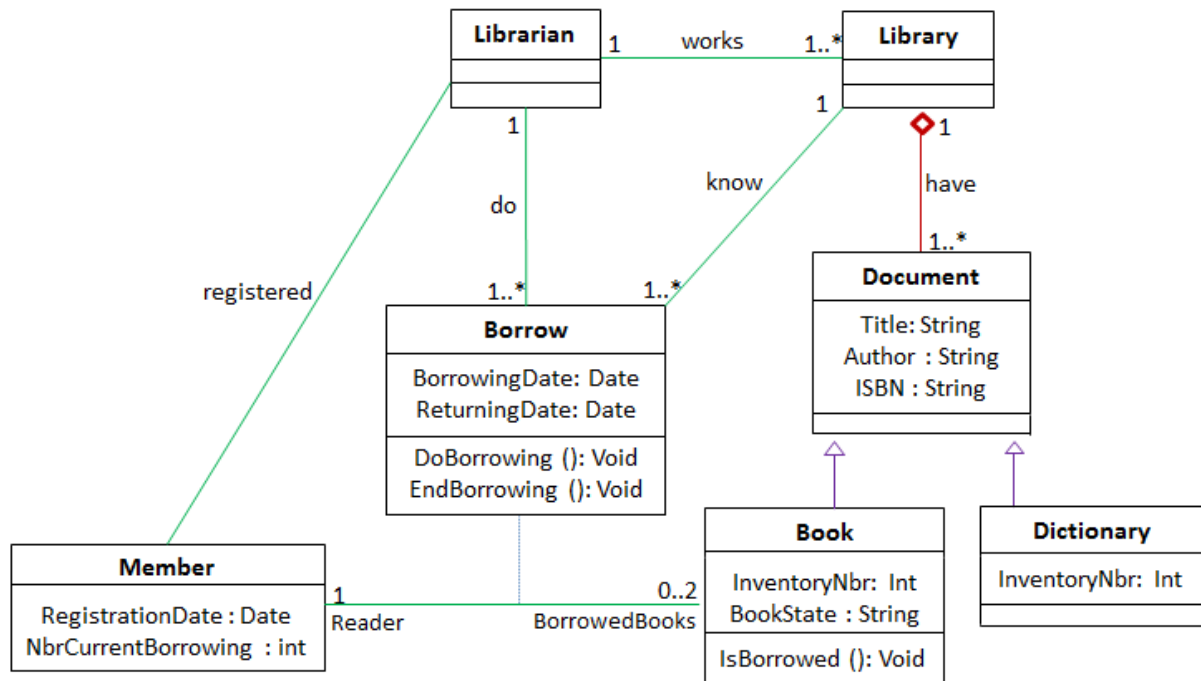
## Problem 5: University Management System

### Class Diagram

Class Diagram for University Management



## Object Diagram



## Sequence Diagram

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