



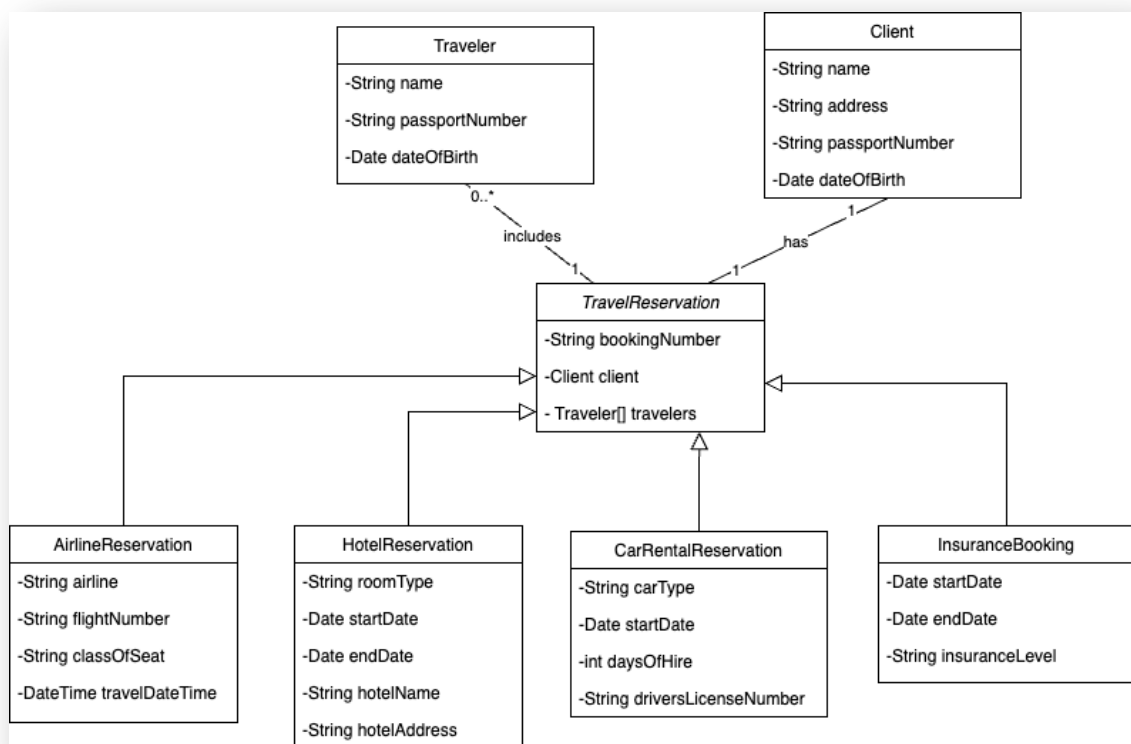
Assignment 2

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20158213

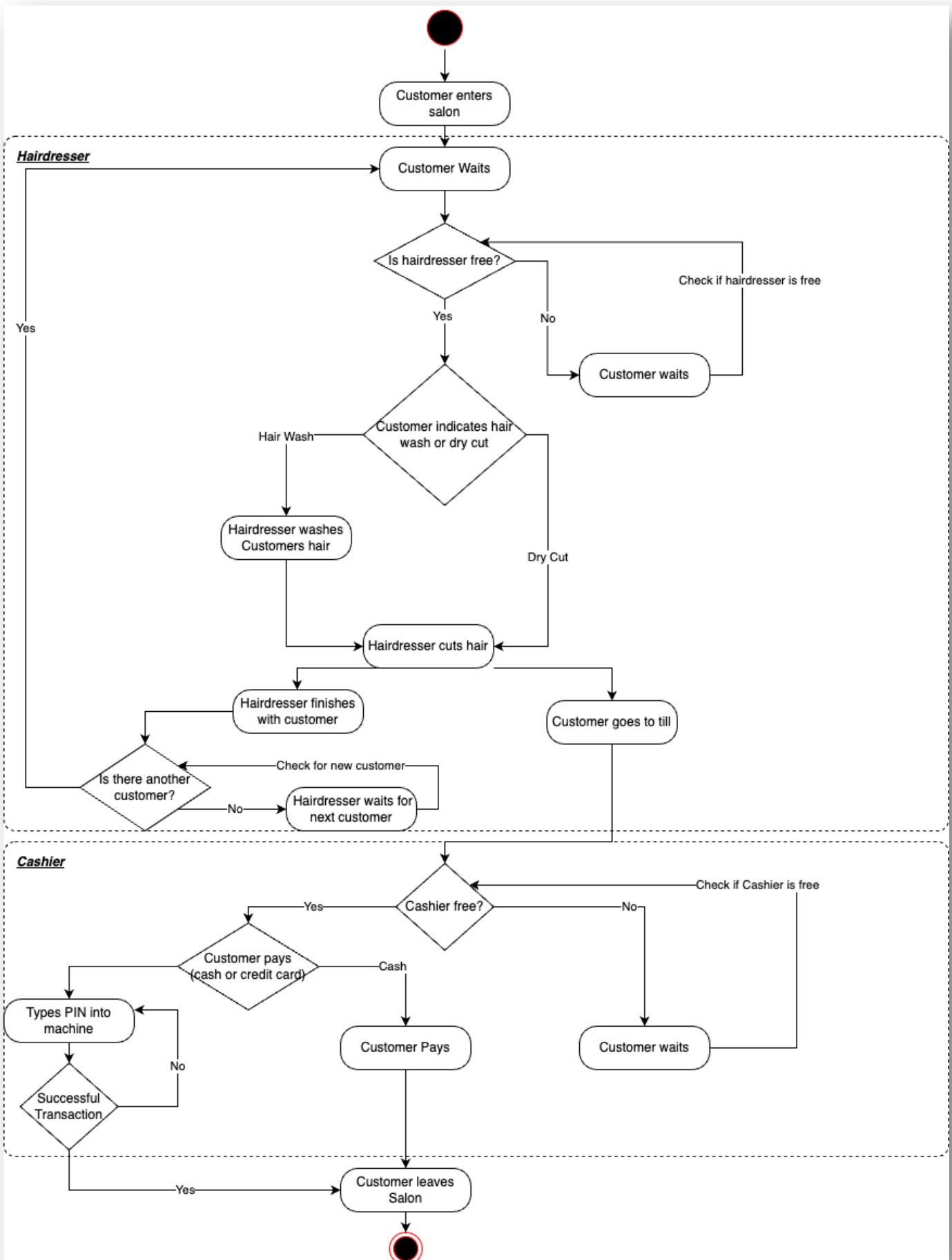
TASK 1. (25%)- identify good candidates for classes and attributes and identify things outside the problem domain. You should use the noun identification technique and show your working. Also, identify all potential inheritance relationships. You should ensure that data is NOT duplicated across classes even if a user places multiple bookings. Use the noun identification method of class elicitation for the first pass.

Noun Identification:

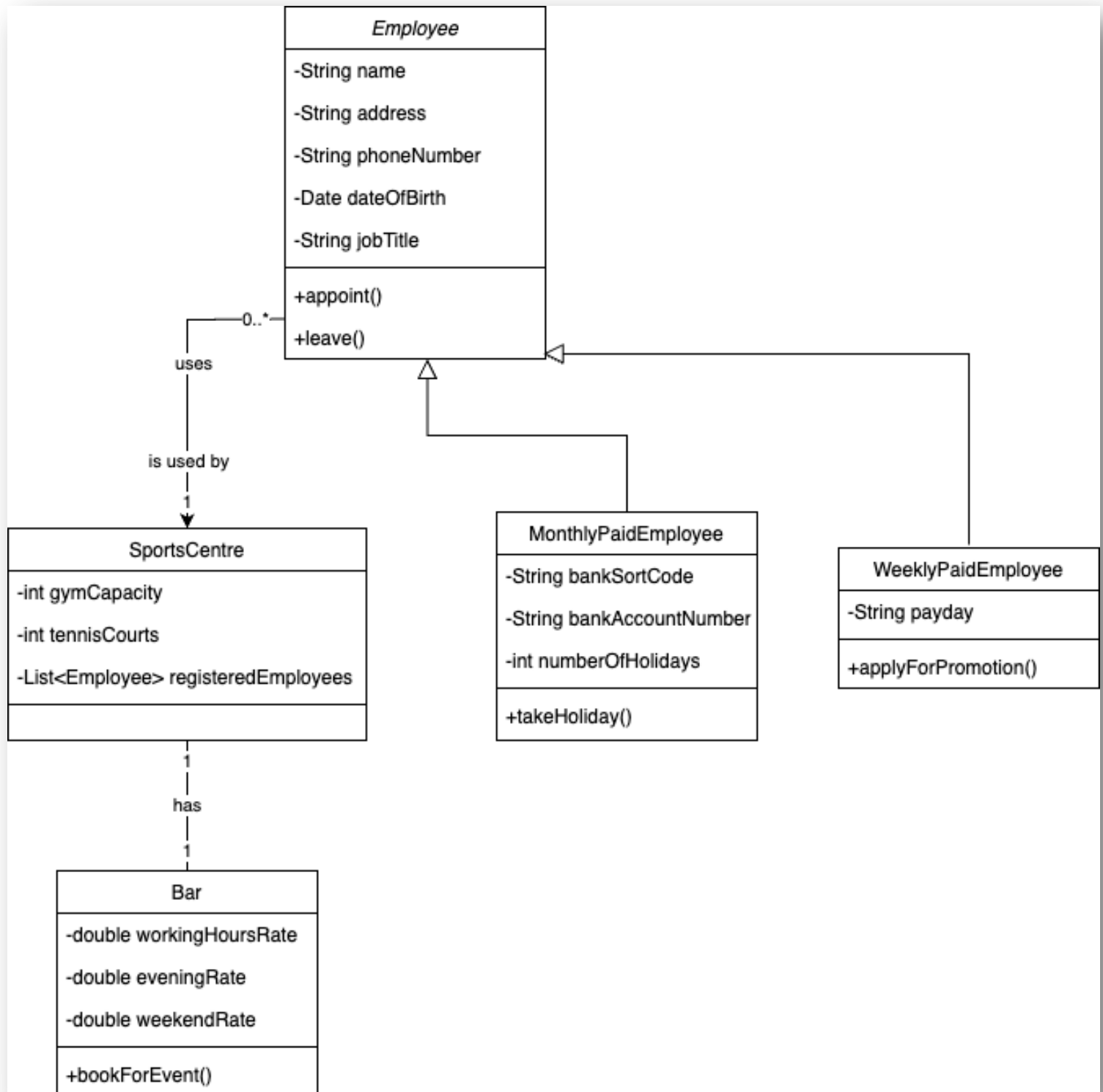
- **Travel Agency** - Context, not a class.
- **Reservation System** - Main system, not a class.
- **Class: Client**
 - **Attributes:** Address, Name, Passport Number
 - **Relationships:**
 - Has multiple TravelReservations
 - Associated with multiple Travellers
- **Class: Traveller**
 - **Attributes:** Name, Passport Number, Date of Birth
 - **Relationships:**
 - Included in TravelReservations
- **Class: Travel Reservation**
 - **Attributes:** Booking Number
 - **Relationships:**
 - May include AirlineReservation, HotelReservation, CarRentalReservation, InsuranceBooking
 - Associated with one Client and multiple Travellers.
 - **Subclass: Airline Reservation (of Travel Reservation)**
 - **Attributes:** Airline, Flight Number, Class of Seat, Travel Date and Time
 - **Subclass: Hotel Reservation (of Travel Reservation)**
 - **Attributes:** Room Type, Start Date, End Date, Hotel Name and Address
 - **Subclass: Car Rental Reservation (of Travel Reservation)**
 - **Attributes:** Car Type, Days of Hire, Driver's License Number
 - **Subclass: Insurance Booking (of Travel Reservation)**
 - **Attributes:** Insurance Level (Bronze, Silver, Gold)



TASK 2. (25%) You are required to draw a UML **activity diagram** to represent the scenario of a hairdresser's salon.



TASK 3. (25%)



TASK 4. (25%)

