UML Car Rental Diagram:

Employee

- userID: String
- password: String

+ logIn(): bool
+ manageInventory(): void
+ viewClientHsitory(): void

Inventory

- vehicles: list<String, Vehicle>

+ searchVehicle(): vehicle
+ scheduleMaintenance(): void

Vehicle

- vehicleID: String
- make: String
- model: String

+ checkAvailability(): bool

Employee - - manages - - → Inventory

Inventory — contains — Vehicle

Employee - - use - - → ClientHistory

Vehicle ↑ use

ClientHistory

- clientID: String
- previousRentals: list<RentalContract>

+ viewPreviousRentals(RentalContract): void
+ emailReceipt(): void

Client

- userID: String
- password: String
- email: String
- driversLicense: String
- gpsEnabled: bool
- twoStepAuthentication: bool

+ login(): bool
+ rentCar(): void
+ rentalLocations(): void
+ previousRentals(): void

RentalContract

- agreementID: String
- clientID: String
- vehicleID: String
- startDate: int
- endDate: int

+ signAgreement(): void
+ sendReceipt(): void

Client ← - - use - - ClientHistory

Client - - - use - - - → RentalContract

RentalContract - - use - - → Vehicle
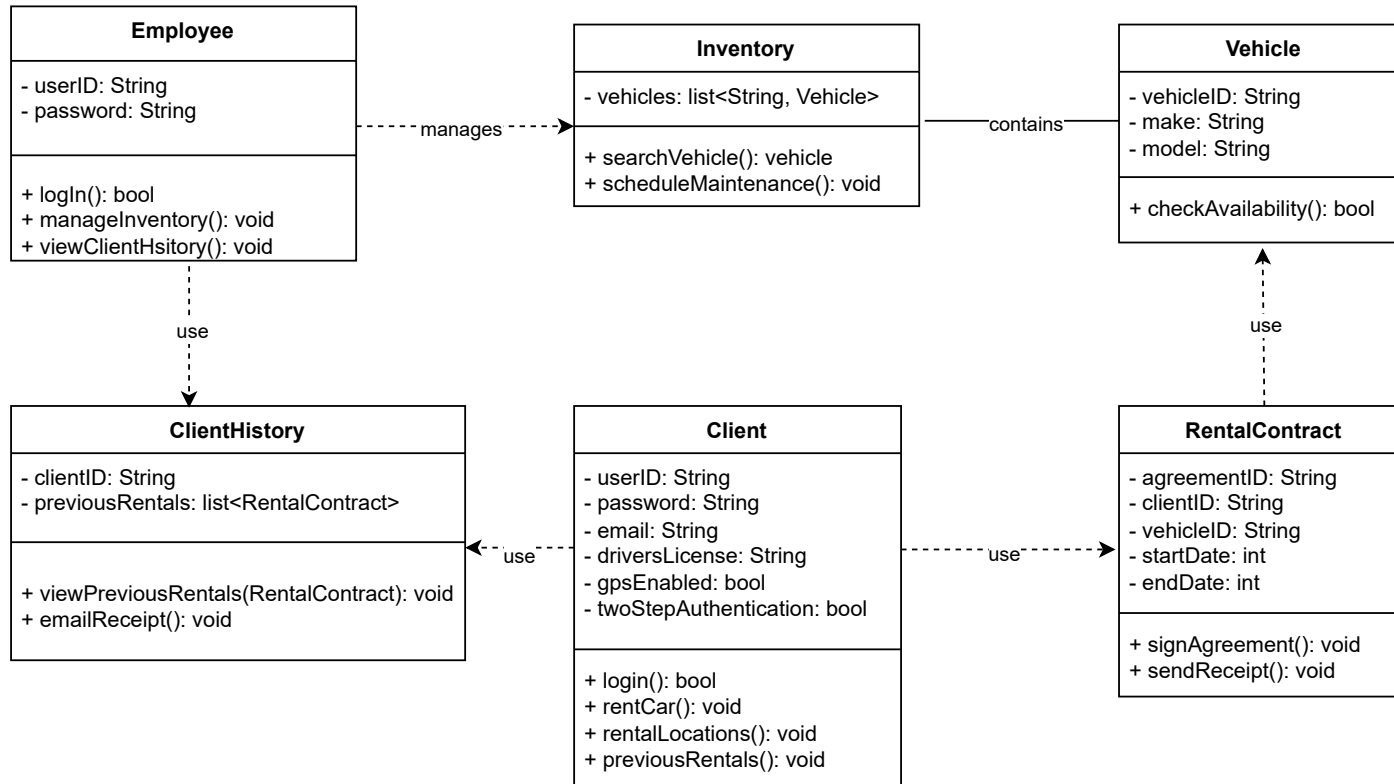
This is the updated UML diagram for our BeAvis car rental software system. Updates include:
- ClientHistory viewPreviousRentals now accepts an argument, RentalContract.
-RentalContract fields startDate and endDate now have integers.