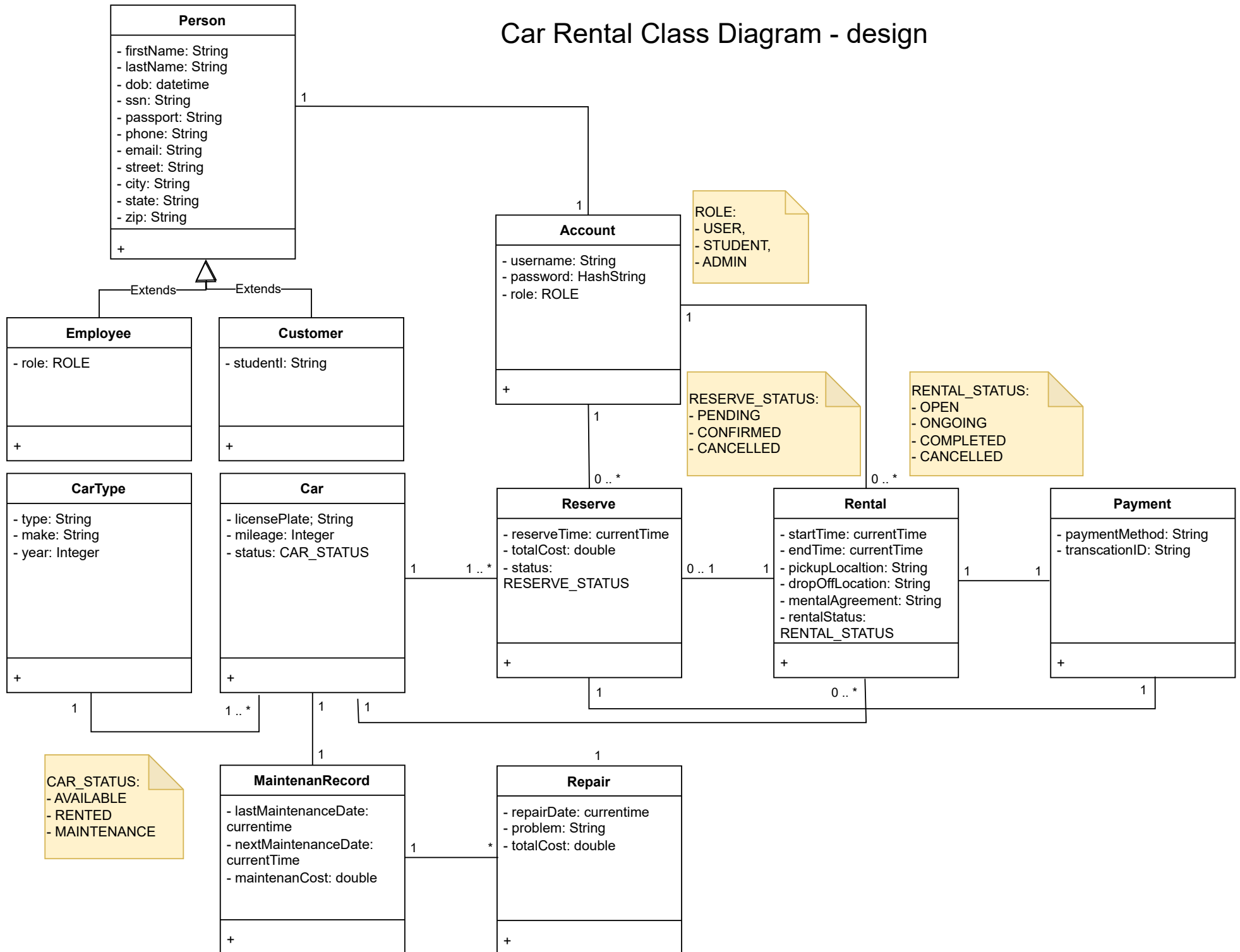


Car Rental Class Diagram - design



ReservationService
+ createReservation() + cancelReservation()

PaymentService
+ processPayment()

CarReservedEvent
- reserveID: String - carID: String - customerID: String - timestamp: DateTime
+ +

PaymentProcessedEvent
- reserveID: String - carID: String - customerID: String - timestamp: DateTime
+ +

ReservationDAO
-
+ +

RentalDAO
-
+ +

PaymentDAO
-
+ +

Description

Class customer and employee are children of person with information of ID, SSN, address, phone, mobile.

Each customer, employee is associated with an account contains username and password to access system.

Each account does one or many reserve. After payment, the reserve is confirmed to create rental.

Customer can make rental without reserve.

Each reserve is for one car.

Each rental is for one car.

Each car has one maintenance record. The maintenance record contains many repairs for the car.