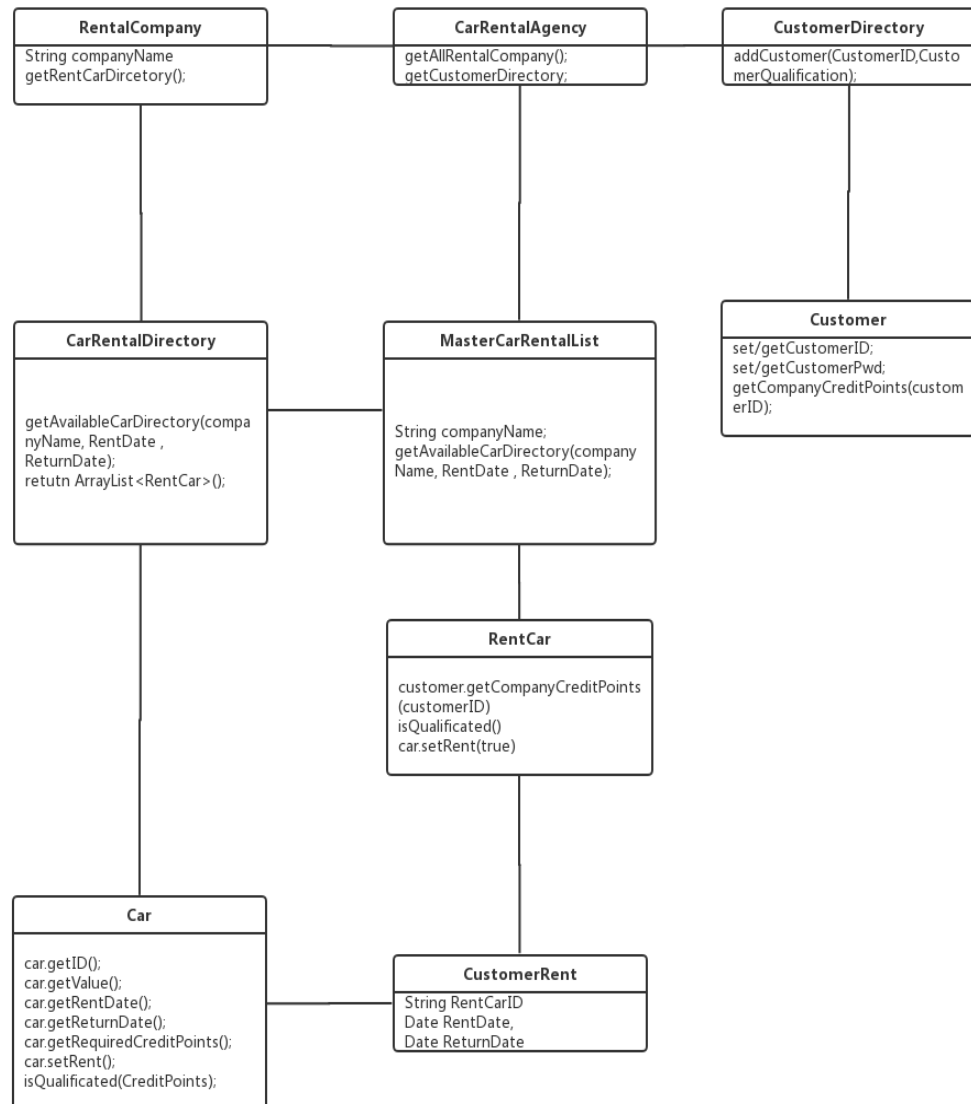# Car Rental System

In this report, we model the process of a customer renting an car in a company by **RentCarAgency**.

● **Object Model**

1. *CarRentalAgency:*

By common sense, we loaded the **Customer Directory** and **Companys** in this panel**.** Customers who login to this with **customerID** and **customerPwd** can choose one **RentalCompany** to view all **AvailableCar** this company can provided in next panel.

Users are also able to create a **customerID** with **customerPwd** in this panel. But they can't create new company.

2. *MasterCarRentalList:*

This panel will populate **AvailableCarDirectory** for this company by **RentDate** and **ReturnDate** user entered. User can choose one available car and view the car detail in next panel.

3. *RentCar:*

User can see if they have **qualification** to rent this car. Each **customerID** have its own **CreditPoints**. For example, if user have rent a car with pretty high value in this company but not return, this user will have low credit points in this company and he/she will not be qualified to rent another high value car. And if someone rent car and return regularly, he/she can rent car with higher value.

If user have qualification to rent this car, they can rent it by click button "Rent" and the car's Availability will be set to false by method **setRent(true)** .

4. *Rent:*

Use can view all cars this **CustomerID** have rented or renting in a table. Including **RentCarID**, **RentDate**, **ReturnDate**.

- **Summary**

According this system, customer can rent car in rental company. For rental company, they can choose customer to rent their car by set car 's required credit points. And for customer they won't order the cars that not yet return.