CAR RENTAL DATABASE

Project # **2**

CSE 5330 Database Systems

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Honor Code

I pledge, on my honor, to uphold UT Arlington's tradition of academic integrity, a tradition that values hard work and honest effort in the pursuit of academic excellence.

I promise that I will submit only work that I personally create or that I contribute to group collaborations, and I will appropriately reference any work from other sources. I will follow the highest standards of integrity and uphold the spirit of the Honor Code.

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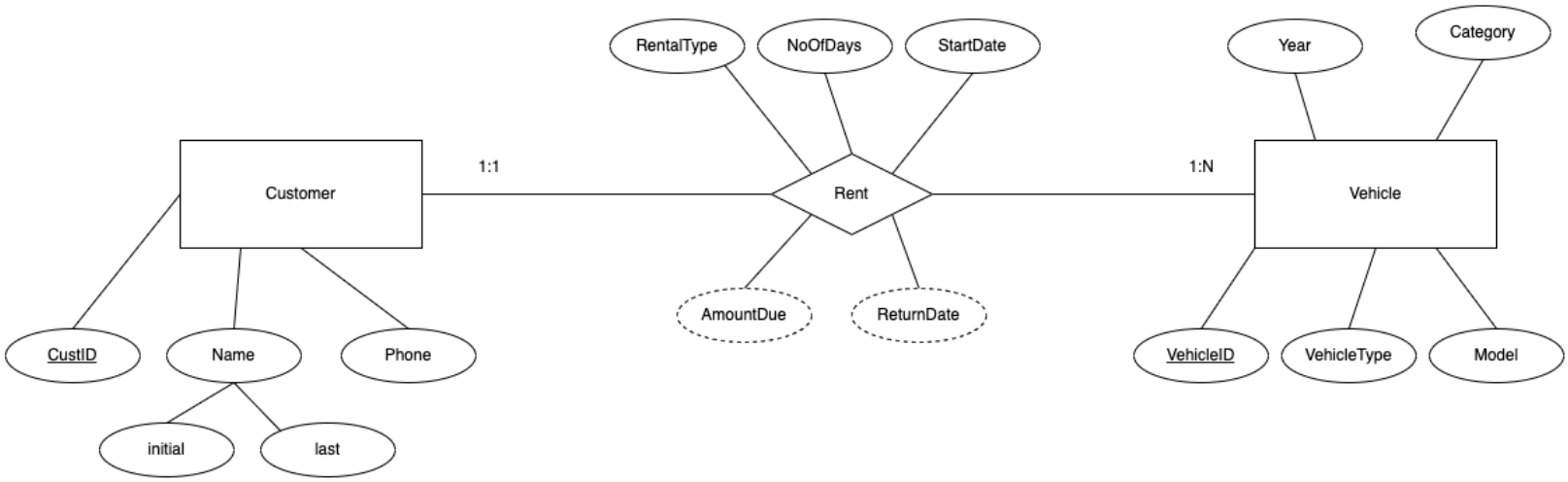
Introduction

An automobile rental firm would like to go online since the usage of technology has grown. In order to achieve the goal, the company wants a database for tracking all bookings. So, this project focuses on the implementation of a database for tracking information about car rental company.

The database keeps track of CARs available for rental, which are categorized based on their type with six main types: compact, medium, large, SUV, truck, and van. Each type of car has its own daily rate and weekly rates The database will keep track of the current rental as well as the scheduled rental of each vehicle. The customer can rent a car on a daily basis or weekly basis. For each daily rental, the information kept will include the specific CAR and customer, as well as the number of days the car, is booked, start Date, and return Date. For each weekly rental, the information kept will include the specific car and customer as well as the number of weeks the car, is booked. However, return dates can be determined from the start date and the number of weeks. Each rental will also have the amount due for the rental. The database will also keep track of which CARs are available for rental during which periods.

ERD



Assumptions:

1. Rent takes primary kets from Customer and Vehicle
2. AmountDue is derived from RentRate and NoOfDays for daily rental type and NoOf Weeks for weekly rental type.
3. 3. ReturnDate is derived from startDate and NoOfDays for daily rental type and NoOf Weeks for weekly rental type.

Schema Diagram