Address

map: Name → Available
Num

Cars → Availability

Pledge Info / map: Name
→ Num

ABC

(List of Customer)

Customers

Rent History

Address

renting Car:

map: Name → Num

Customer

msg. sender: 另前调用合约的用户address

State diagram

Car:

ABC Adds Car

ABC has
new Car
coming

Customer
Rent Car

Available → Rents

Customer
Gives Back
Car without
Damage

Customer
Gives Back
Car with
Damage

ABC
Adds
Car

(Here means
a car is fixed
and added
by ABC again)

Unavailable
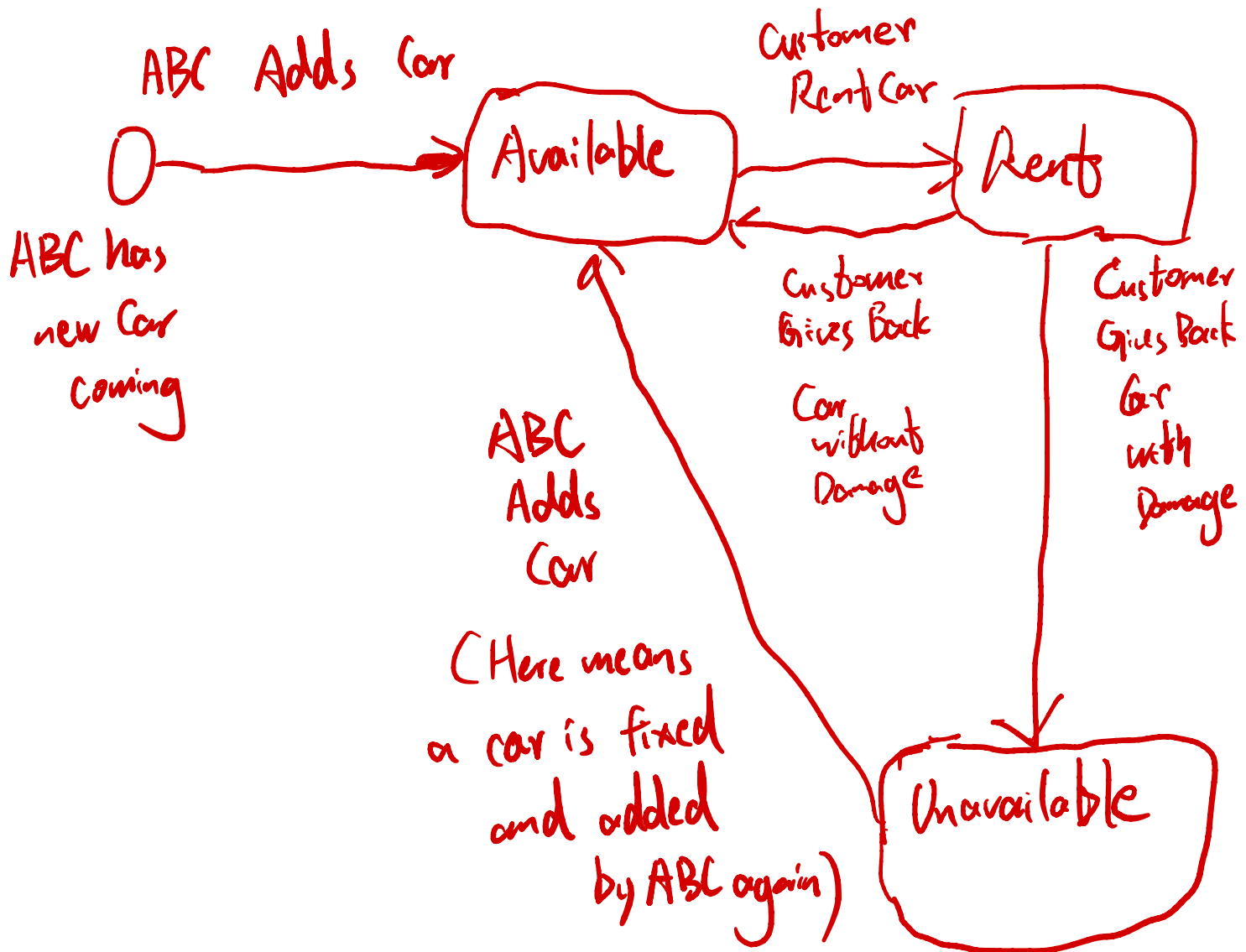
Func:

(Constructer)

① customer Register

② abc Add Car

③ customer Rent Car

④ customer Give Back Car

⑤ abc Return Pledge

⑥ get Transaction History

Sequence Diagram

Customer   ABC

①

①'s return

②

③

③'s return

④

④'s return

⑤