

Use case name:	Buy a vehicle									
Scenario:	Vehicle transaction created									
Triggering event:	Customer wants to purchase a vehicle									
Brief Description:	Customer browses for a vehicle, desires to add to cart, system checks to see if the car is available from their inventory, if it is, car is added to cart, else, error is given to the customer. Customer enters information to pay, the customer receives a confirmation, and the system creates a new transaction									
Actors:	Customer									
Related use cases:	searchStock									
Stakeholders:	Dealership									
Preconditions:	Vehicle information must be in the system Customer should have searched for vehicle already Vehicle must be in stock Custom has a account with a valid payment option									
Postconditions:	Transaction gets created									
Flow of Activities:	<table><tr><th>Actor</th><th>System</th></tr><tr><td>1. Customer adds a vehicle to their cart</td><td>1.1 System checks inventory 1.2 Add to cart</td></tr><tr><td>2. Customer selects checkout</td><td>2.1 If customer is not logged in, prompt customer to log in</td></tr><tr><td>3. Customer clicks confirm purchase</td><td>3.1 System decrements the inventory for that car 3.2 System changes the stockID to sold 3.3 System creates a new transaction for the order</td></tr></table>		Actor	System	1. Customer adds a vehicle to their cart	1.1 System checks inventory 1.2 Add to cart	2. Customer selects checkout	2.1 If customer is not logged in, prompt customer to log in	3. Customer clicks confirm purchase	3.1 System decrements the inventory for that car 3.2 System changes the stockID to sold 3.3 System creates a new transaction for the order
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Exception conditions:	1.1 There is no inventory for the vehicle 2.1a User enter invalid information									

```
Customer.addToCart(carListing)
{
  If (car inventory is not zero)
    System.addToCart
  else
    System.displayEmptyInventoryMsg()
}
```

```
Customer.checkout()
{
  if(cart quantity is zero)
    System.diplayCartIsEmptyMsg()
  else
    System.promptLoginOrSignUp()
    {
      if(login)
      {
        While(login isn't correct)
          "Try again"
        Move on to next part
      }
      else(sign up
      {
        While(sign up isn't correct)
          "Try again"
        Move on to next part
      }
    }
  Customer.userConfirmsPurchase()
  System.displayOrder()
  System.decrementInventory()
```