**Use case name**: BeginTransit

**Textual description**: Starts the transit, depending that the date is today. Automatically assigns time to the transit. The transit begins at the logistic warehouse and will go through all the suppliers, taking all products that has been ordered. Then will go to each store by the order and will drop all the products.

**List of actors:** Transit Manager

**Preconditions:**

* Correct date.
* Available Truck.
* Available driver.
* Suitable license for the driver.
* Suitable maximum Weight for the truck.

**Postconditions:**

* The transit record saved successfully(instance created).
* Truck is not available for other transit for the transit date(association formed).
* Driver is not available for other transit for the transit date(association formed).
* Order documents are recorded at the finish of the transit(association formed).

**Main success scenario as pseudo code:**

1. Transit manager starts transit 1 //(transit 1 date is today).
2. The system will add to a list all suppliers that in the orders, in the transit.
3. The system will iterate over the list of suppliers, and will add all the products that are listed in those suppliers by its order.
4. The system will add to a list all stores that in the orders, in the transit, conditioning that the truck has picked up the supply from the supplier.
5. The system will iterate over the list of stores, and drop the products in those stores.
   1. In each iteration, the system will move the order document from the transit to finished orders list.
6. the system will create a transit record, that will contain details such as weight, and if there was a overweight alert during the transit. //(in this scenario – always false).
7. The system will print to the manager that the transit ended successfully.

**Alternatives\Extensions as pseudo code:**

1. **Transit id error:**
   1. The transit manager enters nonexistent number of transit id. The system will show a warning and exit to main menu.
2. **Date error:**
   1. The transit manager will start the transit, but the date is incorrect. A warning will appear on the screen and the system will go back to main menu.
3. **Over weight:**
   1. Transit manager starts transit 2 (transit 2 date is today).
   2. The system will add to a list all suppliers that in the orders, in the transit.
   3. The system will iterate over the list of suppliers, and will add all the products that are listed in those suppliers by its order.
   4. After the second supplier, the system will show an over weight warning, because the truck maximum weight to carry is lower than its current carry weight.
   5. The transit record will show that there was an issue with this transit.
   6. The transit manager will pick one of the followings:
      1. Switch truck and driver:
         1. The manager will enter truck license plate that is free for use today, and its maximum weight is over the maximum weight of the current truck.
         2. The manager will assign a suitable driver (driving license, free to work today).
         3. The trucks will be switched, and all of the containment of the current truck will be inserted to the new truck.
         4. continue
      2. Remove current order:
         1. The current order will be removed from the transit, will go back to pending.
         2. Transit will continue to its destinations.
      3. Remove products from current order.
         1. The manager will decide which products to remove from the current order.
         2. Those products will be removed.
         3. Continue as long as the weight is now eligible.
   7. The system will add to a list all stores that in the orders, in the transit, conditioning that the truck has picked up the supply from the supplier.
   8. The system will iterate over the list of stores, and drop the products in those stores.
      1. In each iteration, the system will move the order document from the transit to finished orders list.
   9. the system will create a transit record, that will contain details such as weight, and if there was a overweight alert during the transit.(in this scenario – always true).
   10. The system will print to the manager that the transit ended successfully.