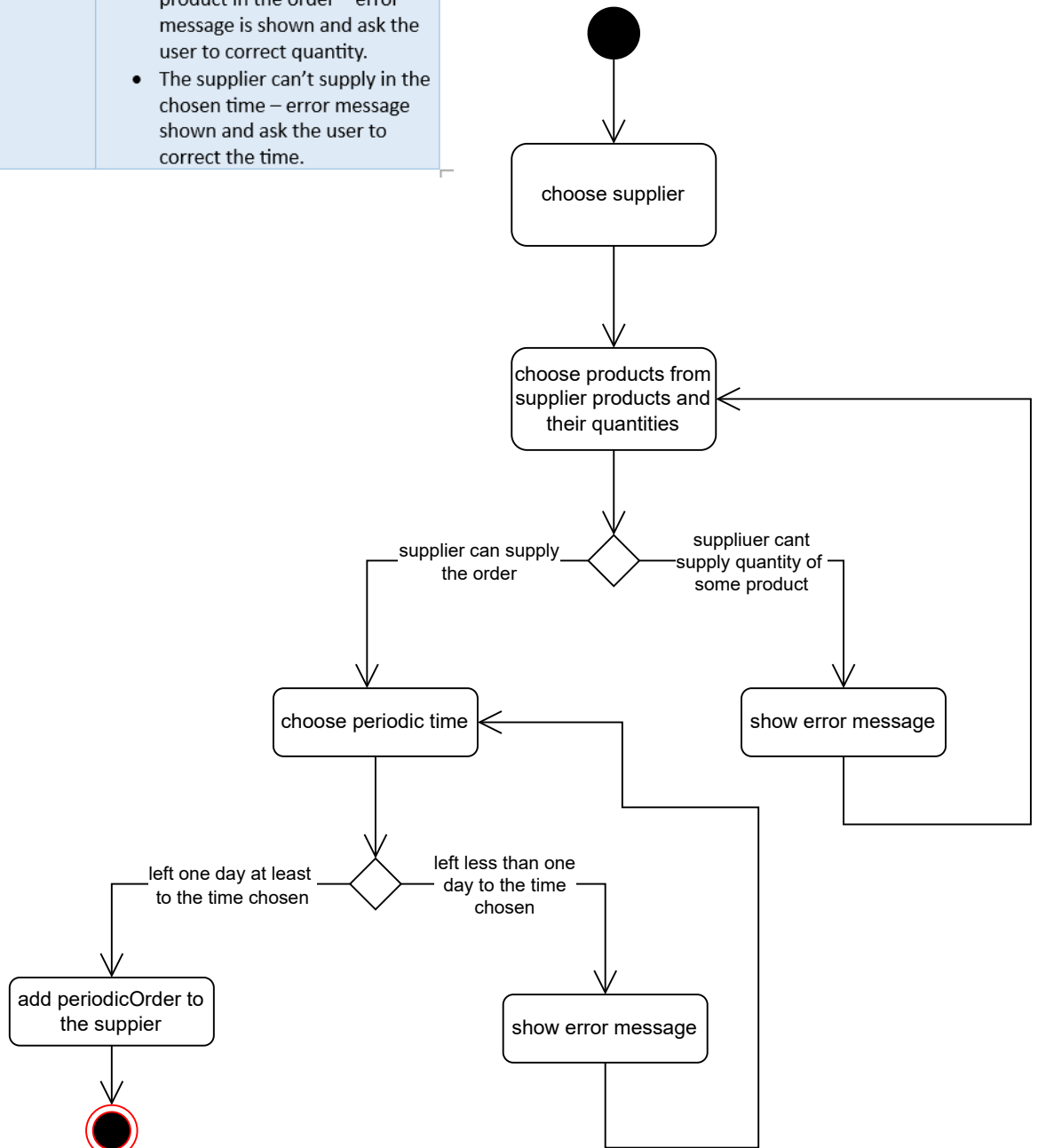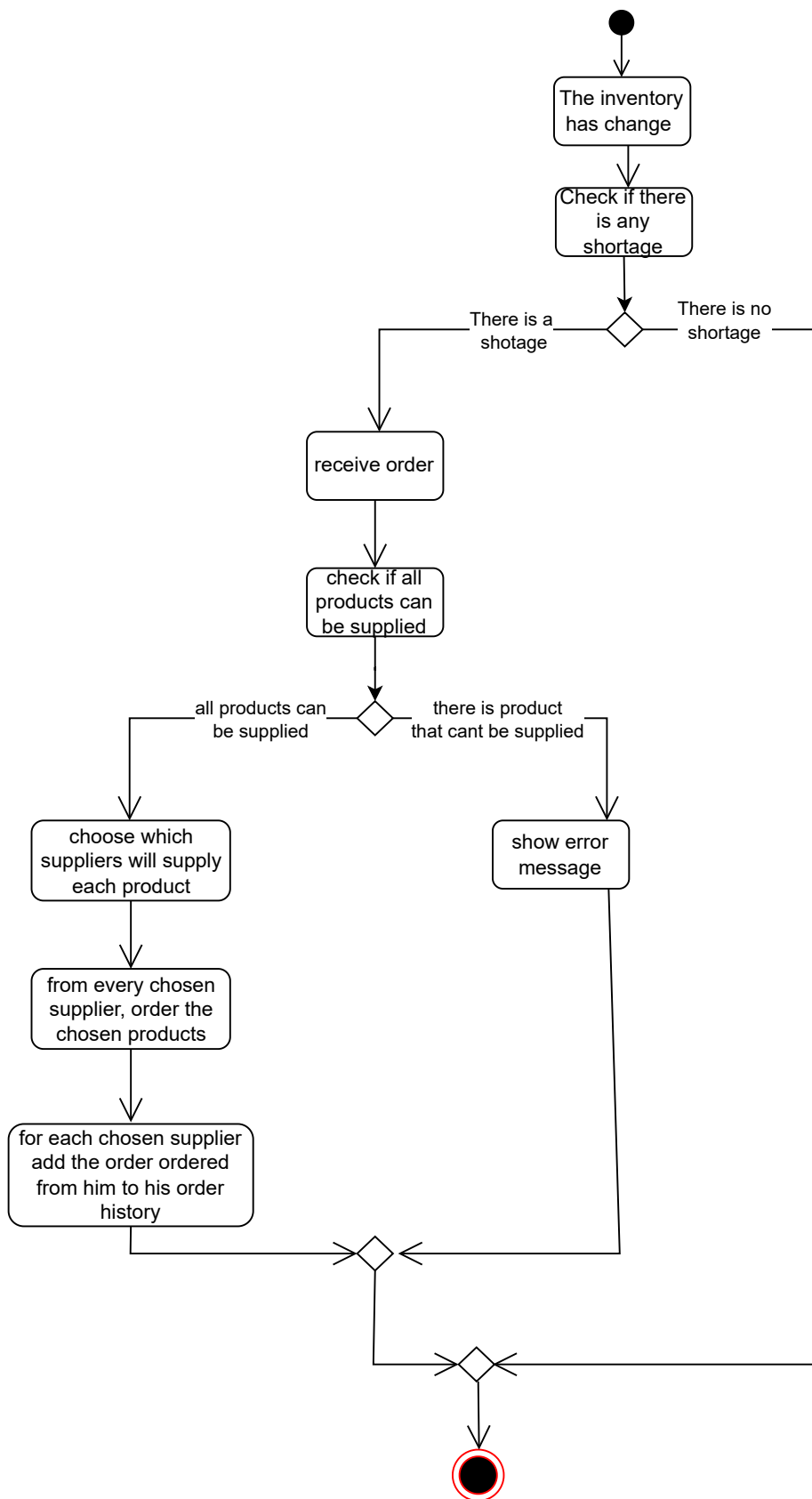| Use case name	Periodic order
Textual description	The warehouseman selects the periodic time, a supplier and chooses what products and their quantities to order from him
Actor	warehouseman
Pre conditions	The Application initialized properly
Post conditions	A periodic order is set with specific supplier. Or an error message pops if the supplier chosen can't supply all the products of the order or he can't supply in the chosen time
Main success scenario	1. Warehouseman chooses a supplier to periodically order from. 2. Warehouseman chooses the products from the products the supplier supplies and their quantities to order. 3. Warehouseman chooses a periodic time for the order
Alternatives/Extensions	• The supplier can't supply the quantity required of certain product in the order – error message is shown and ask the user to correct quantity. • The supplier can't supply in the chosen time – error message shown and ask the user to correct the time.

Activity diagram

ACTICITY DIAGRAM

The inventory has change

Check if there is any shortage

There is a shotage / There is no shortage

receive order

check if all products can be supplied

all products can be supplied / there is product that cant be supplied

choose which suppliers will supply each product

show error message

from every chosen supplier, order the chosen products

for each chosen supplier add the order ordered from him to his order history

Use case name	order due to shortage
Textual description	The warehouseman reports on inventory changes, the system checks if there are shortages, and sends an order of the shortages products to the specific supplier that it chooses .
Actor	Warehouseman
Pre conditions	The Application initialized properly
Post conditions	If needed, an order is sent to every supplier selected by the system with the relevant products, or an error message pops, if there is no supplier that can supply a certain product
Main success scenario	1. The warehouseman reports on inventory changes, and a shortage appears. 2. The system chooses what items to order from each supplier. 3. For each supplier chosen – the system orders from the supplier, and adds the order to the supplier's order history.
Alternatives/Extensions	• There is no supplier that can supply a certain product – an error message is shown, and the order is canceled. • There is no shortage and no order is sent.

Operation: addPeriodicOrder(Supplier s, products:Map<Integer, Integer>, day)
References : Cases: add Periodic order.
Pre conditions : the system initialized properly.
Post condition :

- a PeriodicSale instance sp was created
- the supplier mentioned was assosiated with sp
- sp.order became products
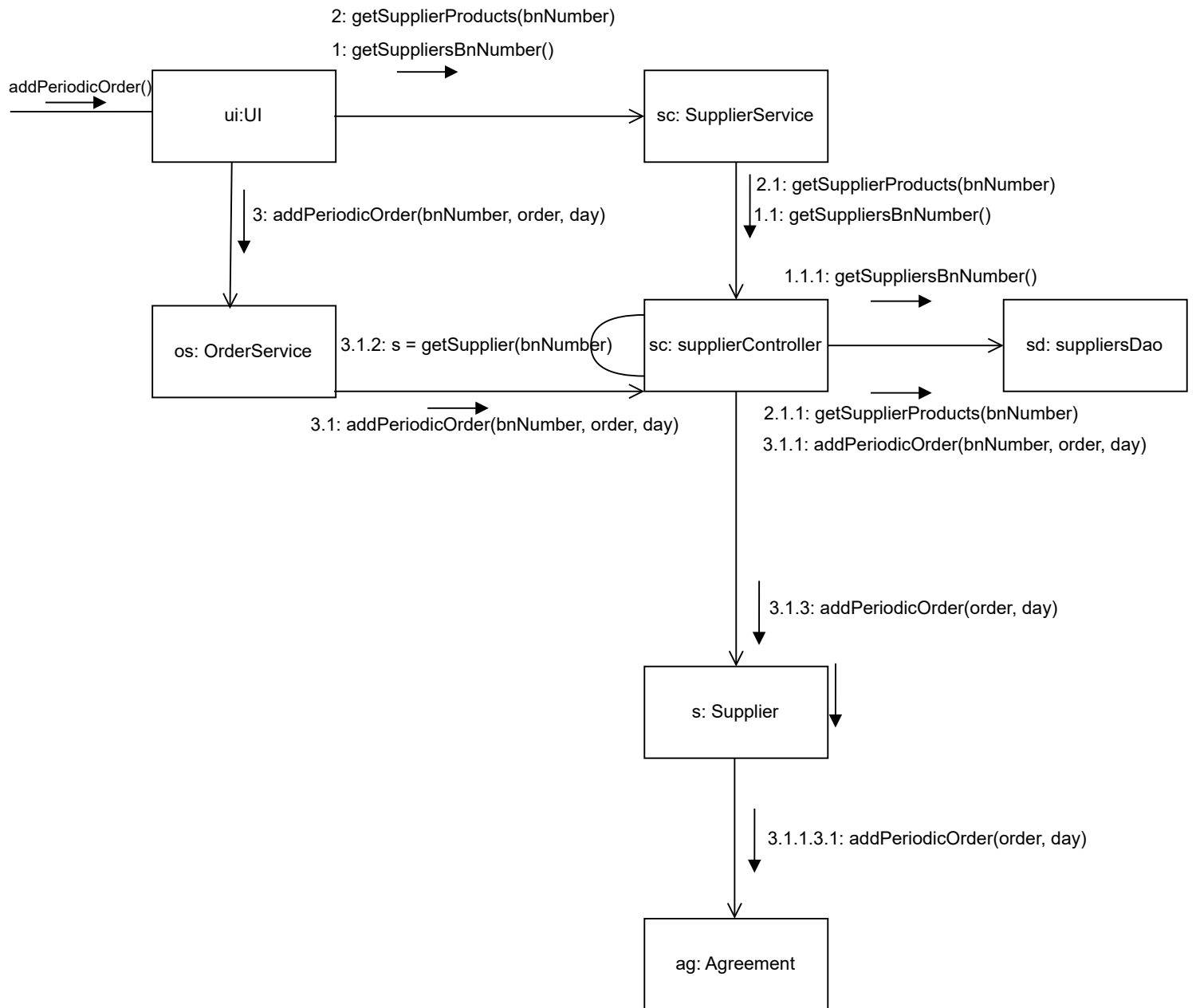- sp.day became day

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Operation: order(products: Map<Integer,Integer>)
References : Cases: Order.
Pre conditions : There is a shortage in products to order.
Post condition :

- for every supplier chosen, an order is sent and transport is ordered if needed
- for every supplier chosen, an Order instance was created and associated with the supplier

inventory worker

UI_mainMenu | UI_updateProduct | InventoryService | ProductController | ProductType | oc: OrderController | sc: SupplierController | s: Supplier | sd: SuppliersDao

1: menu options()
2: choosenOption (choice)
3. choosenOption (reports)
4. UpdateOptions()
5. soldProduct(productID)
6. updateProduct (productID, change)
7. updateProduct (productID,change)
8. updateSold(productID)
9. productsShortage()
10. productsShortage result

alt [if results Yes]

order(products)

suppliers = getSuppliers()
getSuppliers()
checkIfAllProductsCanBeSupplied(products, suppliers)

alt [if all products can be supplied]

SupplierToProducts = divideOrder...liers(products, suppliers)
o :Order

loop *[s in supplierToProducts.keys()]

create(supplierToProduct.get(s))

addOrder(s, o)
addOrder(o)
addOrder(s, o)

supplierToProducts

[else]

"order cant be ordered"