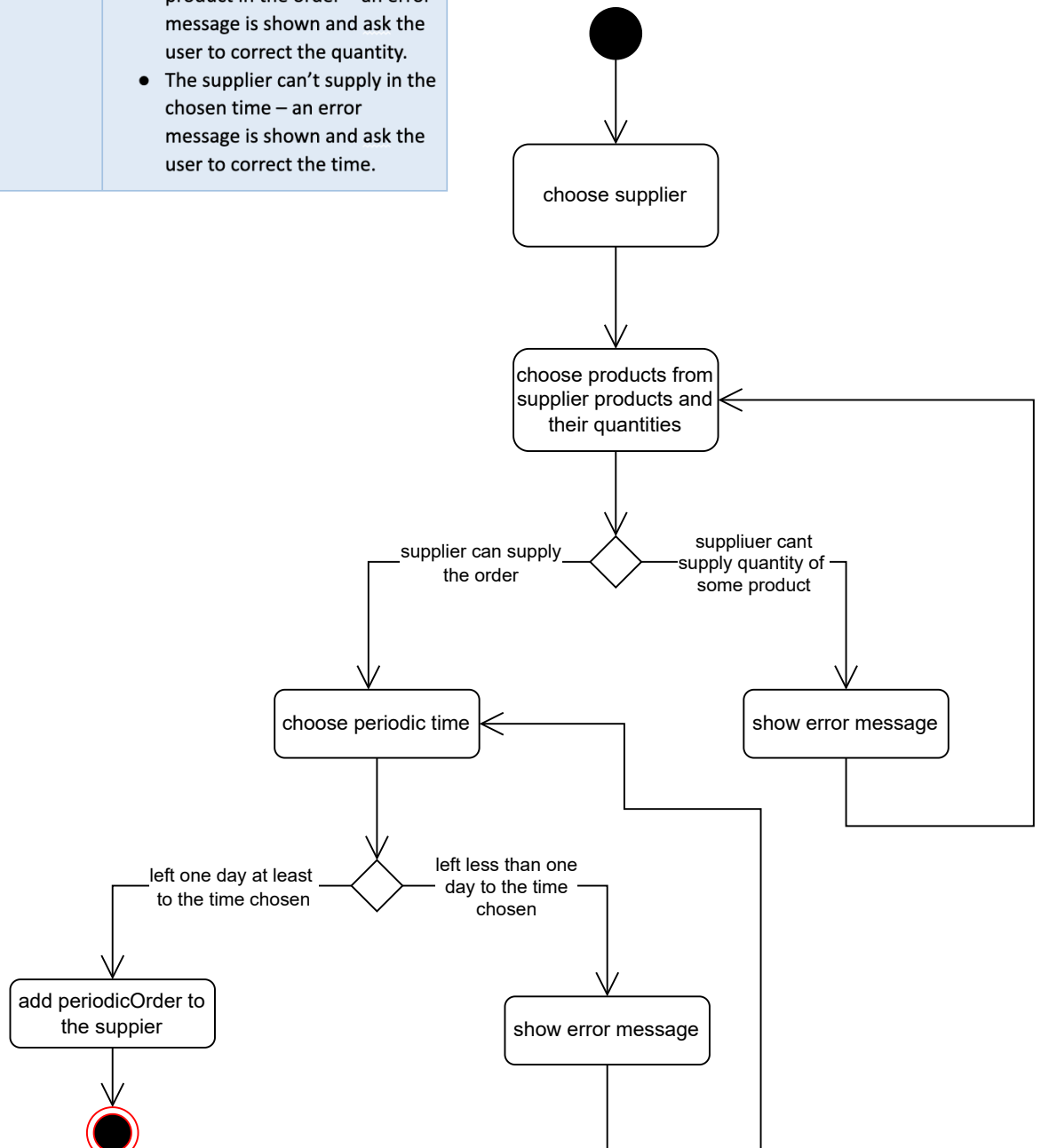


<b>Use case name</b>	Periodic order
<b>Textual description</b>	The warehouseman selects the periodic time, and a supplier and chooses what products and their quantities to order from him
<b>Actor</b>	warehouseman
<b>Pre conditions</b>	1. The Application is initialized properly
<b>Post conditions</b>	A periodic order is set with a specific supplier.
<b>Main success scenario</b>	<ol style="list-style-type: none"> <li>1. Warehouseman chooses a supplier to periodically order from.</li> <li>2. Warehouseman chooses the products from the products the supplier supplies and their quantities to order.</li> <li>3. Warehouseman chooses a periodic time for the order</li> <li>4. A periodic order is sent to the supplier</li> </ol>
<b>Alternatives/Extensions</b>	<ul style="list-style-type: none"> <li>• The supplier can't supply the quantity required of a specific product in the order – an error message is shown and ask the user to correct the quantity.</li> <li>• The supplier can't supply in the chosen time – an error message is shown and ask the user to correct the time.</li> </ul>

### Activity diagram



<b>Use case name</b>	update Inventory
<b>Textual description</b>	The warehouseman reports on inventory changes.
<b>Actor</b>	Warehouseman
<b>Preconditions</b>	Product needs to be initialized in the system.
<b>Post conditions</b>	Product changes update in the system on the relevant filed.
<b>Main success scenario</b>	<ol style="list-style-type: none"> <li>1. The warehouseman reports on inventory changes.</li> <li>2. The system updates the chosen products.</li> </ol>
<b>Alternatives/Extensions</b>	<ul style="list-style-type: none"> <li>• The product does not exist in the system.</li> </ul>

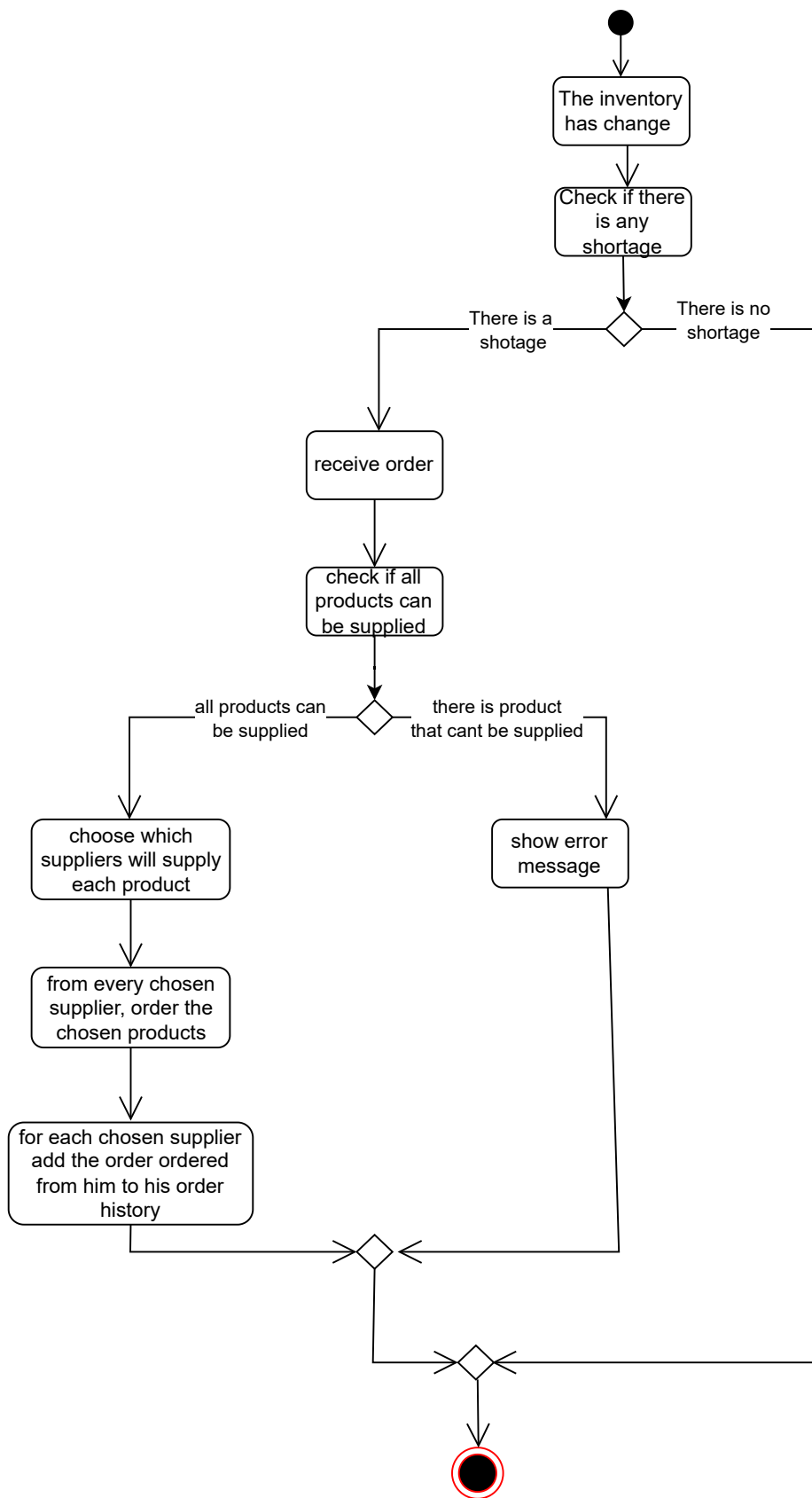
<b>Use case name</b>	check stock shortages
<b>Textual description</b>	The system checks if there are shortages on specific product
<b>Actor</b>	Inventory system
<b>Preconditions</b>	Change accrued in the inventory
<b>Post conditions</b>	The system run "order due to shortage" operation.
<b>Main success scenario</b>	<ol style="list-style-type: none"> <li>1. The system check in the inventory if the number of products in the store and the warehouse is less than the minimum.</li> <li>2. A shortage alert appears in the system and update about order request that been sent</li> </ol>
<b>Alternatives/Extensions</b>	There is no shortage, and no order is sent.

I

<b>Use case name</b>	order due to shortage
<b>Textual description</b>	The system sends an order of the shortages products to the specific supplier that it chooses.
<b>Actor</b>	Inventory system
<b>Preconditions</b>	Change accrued in the inventory
<b>Post conditions</b>	An order is sent by the inventory system to the supplier system.
<b>Main success scenario</b>	The inventory system sends the shortages products as an order to the supplier system.
<b>Alternatives/Extensions</b>	<ul style="list-style-type: none"> <li>• There is no shortage, and no order is sent.</li> </ul>

# ACTIVITY DIAGRAM

Use case - F



**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 associated with sp
- sp.order became products
- sp.day became day

**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

