Activity diagram

2026-11-19 · `examples/types/uml-activity.json`

3 views · 29 cards · 26 lines

Contents

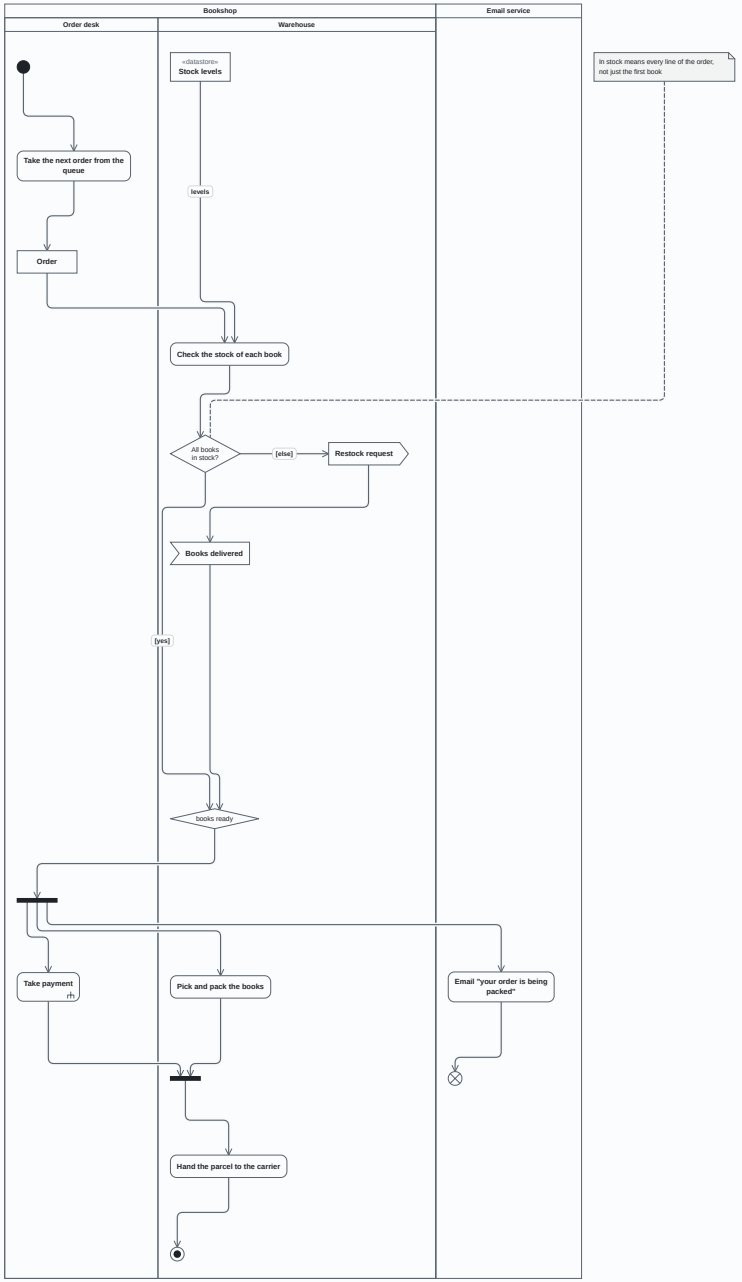
Fulfilling a bookshop order 2

The same activity, laid out right 4

Take payment, the activity the call opens 6

Fulfilling a bookshop order

22 cards · 19 lines



Legend → **Control flow** the next step, once the one before ends → **Object flow** an object or data passed on

---- **Comment link** what a comment is about ● **Initial node** where the activity starts

◉ **Activity final** ends the whole activity ⊗ **Flow final** ends its own branch only

| **Fork** splits the flow into branches that run at once | **Join** waits for every branch, then goes on

◇ **Decision** takes the one exit whose guard holds ◇ **Merge** goes on with whichever flow arrives

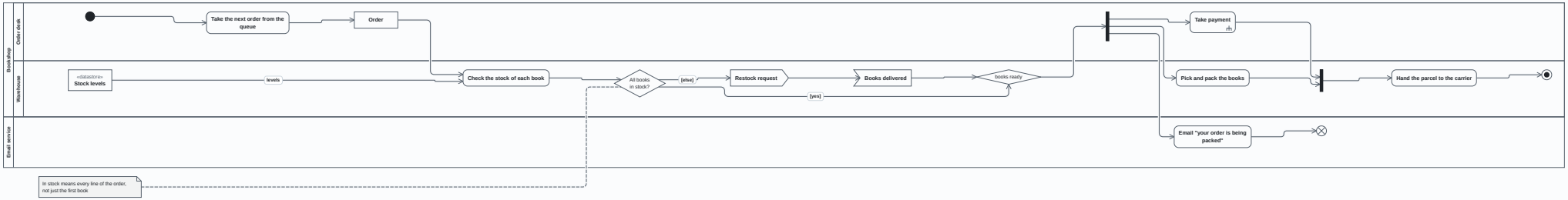
Elements 22

Card	Kind	Members
Bookshop	Partition	
Order desk	Partition	
Warehouse	Partition	
Email service	Partition	
Initial node	Initial node	in Order desk
Take the next order from the queue	Action	in Order desk
Order	Object node	in Order desk
Check the stock of each book	Action	in Warehouse
Stock levels	Data store	in Warehouse
All books in stock?	Decision	in Warehouse
Restock request	Send signal action	in Warehouse
Books delivered	Accept event action	in Warehouse
books ready	Merge	in Warehouse
Fork	Fork	in Order desk
Take payment	Call behaviour action	in Order desk
Pick and pack the books	Action	in Warehouse
Email "your order is being packed"	Action	in Email service
Flow final	Flow final	in Email service
Join	Join	in Warehouse
Hand the parcel to the carrier	Action	in Warehouse
Activity final	Activity final	in Warehouse
In stock means every line of the order, not just the first book	Comment	

Fulfilling a bookshop order (continued)

Lines 19

From → to	Label	Kind
Initial node → Take the next order from the queue		Control flow
Take the next order from the queue → Order		Object flow
Order → Check the stock of each book		Object flow
Stock levels → Check the stock of each book	levels	Object flow
Check the stock of each book → All books in stock?		Control flow
All books in stock? → books ready		Control flow
All books in stock? → Restock request		Control flow
Restock request → Books delivered		Control flow
Books delivered → books ready		Control flow
books ready → Fork		Control flow
Fork → Take payment		Control flow
Fork → Pick and pack the books		Control flow
Fork → Email "your order is being packed"		Control flow
Email "your order is being packed" → Flow final		Control flow
Take payment → Join		Control flow
Pick and pack the books → Join		Control flow
Join → Hand the parcel to the carrier		Control flow
Hand the parcel to the carrier → Activity final		Control flow
In stock means every line of the order, not just the first book → All books in stock?		Comment link



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All books in stock?	Decision	in Warehouse
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Elements 22 (continued)

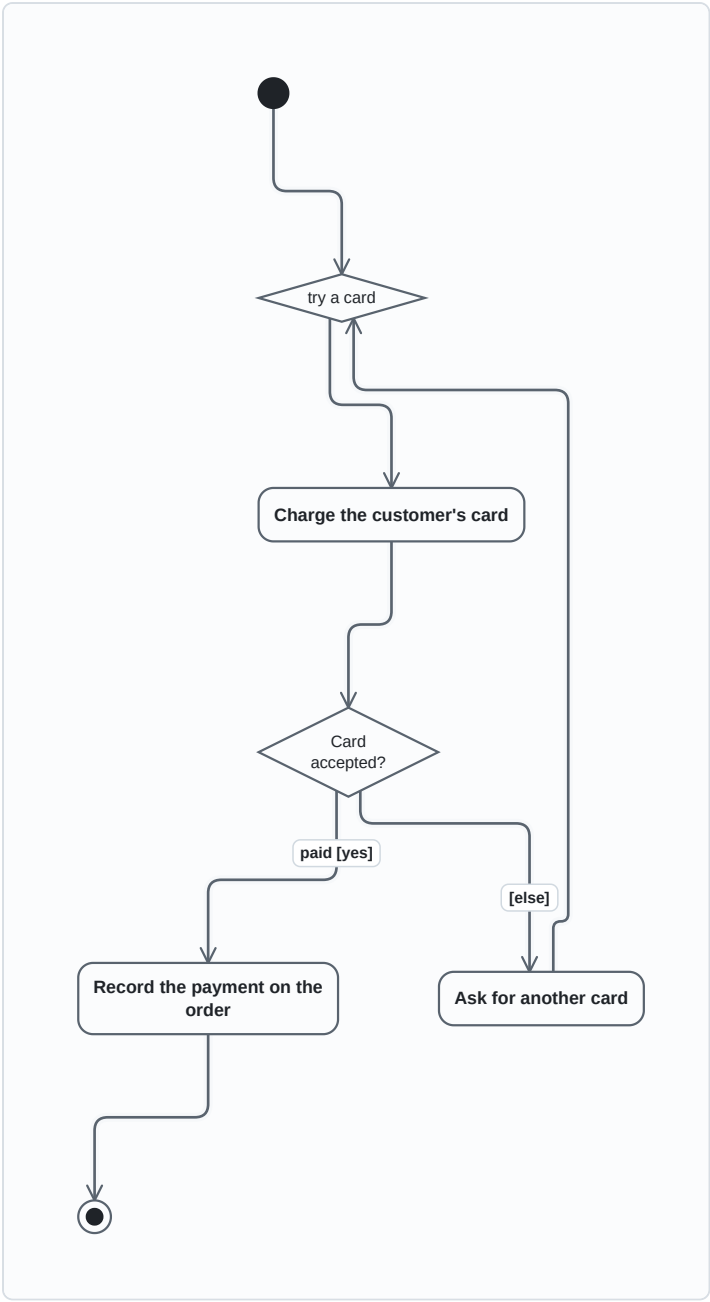
Card	Kind	Members
Pick and pack the books	Action	in Warehouse
Email "your order is being packed"	Action	in Email service
Flow final	Flow final	in Email service
Join	Join	in Warehouse
Hand the parcel to the carrier	Action	in Warehouse
Activity final	Activity final	in Warehouse
In stock means every line of the order, not just the first book	Comment	

Lines 19

From → to	Label	Kind
Initial node → Take the next order from the queue		Control flow
Take the next order from the queue → Order		Object flow
Order → Check the stock of each book		Object flow

Lines 19 (continued)

From → to	Label	Kind
Stock levels → Check the stock of each book	levels	Object flow
Check the stock of each book → All books in stock?		Control flow
All books in stock? → books ready		Control flow
All books in stock? → Restock request		Control flow
Restock request → Books delivered		Control flow
Books delivered → books ready		Control flow
books ready → Fork		Control flow
Fork → Take payment		Control flow
Fork → Pick and pack the books		Control flow
Fork → Email "your order is being packed"		Control flow
Email "your order is being packed" → Flow final		Control flow
Take payment → Join		Control flow
Pick and pack the books → Join		Control flow
Join → Hand the parcel to the carrier		Control flow
Hand the parcel to the carrier → Activity final		Control flow
In stock means every line of the order, not just the first book → All books in stock?		Comment link



Legend → **Control flow** the next step, once the one before ends · ● **Initial node** where the activity starts · ◉ **Activity final** ends the whole activity · ◇ **Decision** takes the one exit whose guard holds · ◇ **Merge** goes on with whichever flow arrives

Elements 7

Card	Kind	Members
Initial node	Initial node	
try a card	Merge	
Charge the customer's card	Action	
Card accepted?	Decision	
Ask for another card	Action	
Record the payment on the order	Action	
Activity final	Activity final	

Lines 7

From → to	Label	Kind
Initial node → try a card		Control flow
try a card → Charge the customer's card		Control flow
Charge the customer's card → Card accepted?		Control flow
Card accepted? → Record the payment on the order	paid	Control flow
Card accepted? → Ask for another card		Control flow
Ask for another card → try a card		Control flow
Record the payment on the order → Activity final		Control flow