


# Next Couple Videos



Add the 'mongoose-update-if-current' module into the Orders model

Fix up some tests - we are creating some Tickets in the Orders service without providing them an ID

Fix up some route handlers - we are publishing events around orders but not providing the version of the order

# Create Order Route Handler



```
graph TD; A[Run a query to find the ticket the user is trying to order] --> B[Run a query to see if there is an un-cancelled order referencing this ticket]; B --> C[Calculate expiration]; C --> D[Build an order]; D --> E[Save the order];
```

Run a query to find the ticket the user is trying to order

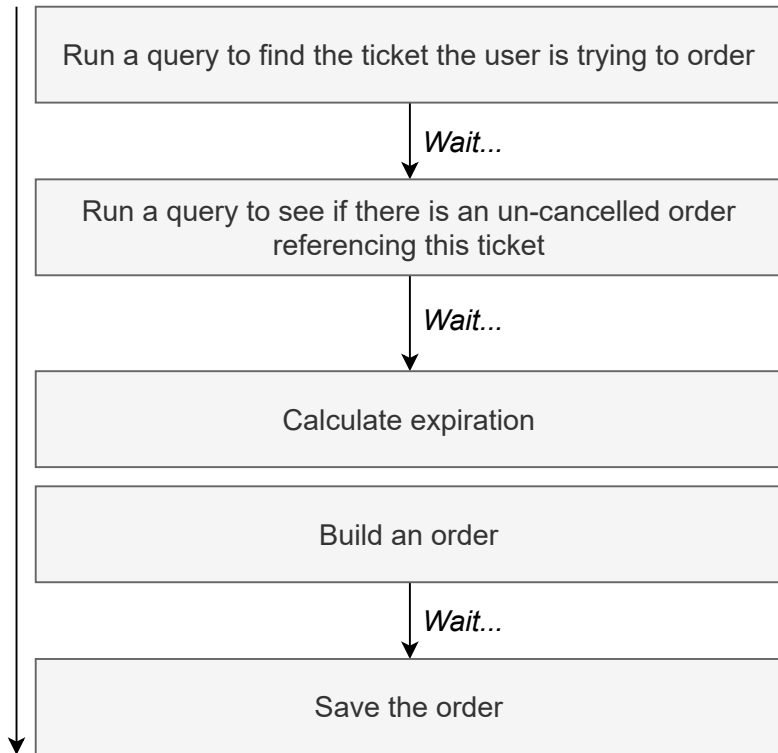
Run a query to see if there is an un-cancelled order  
referencing this ticket

Calculate expiration

Build an order

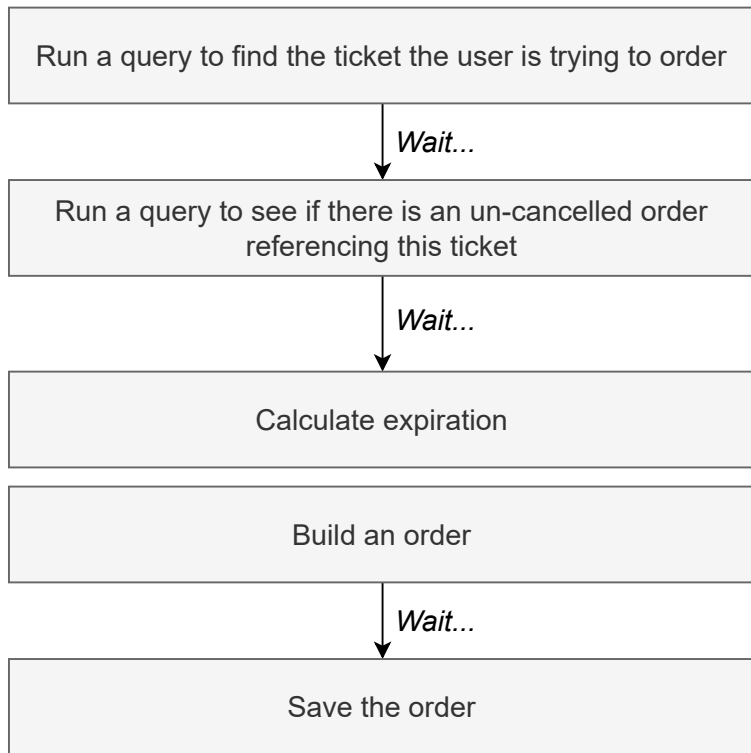
Save the order

# Create Order Route Handler



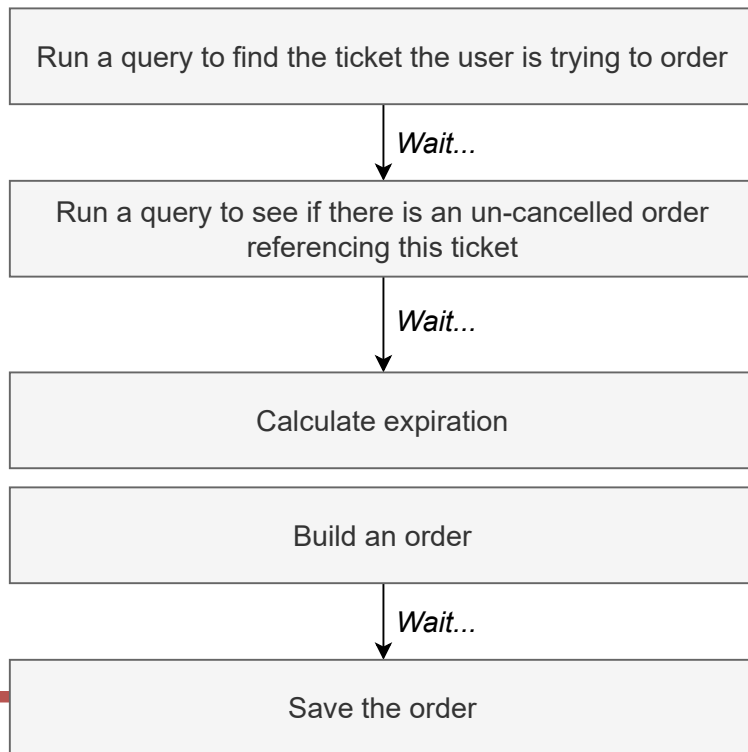
**Ticket is now reserved**

## Request #1

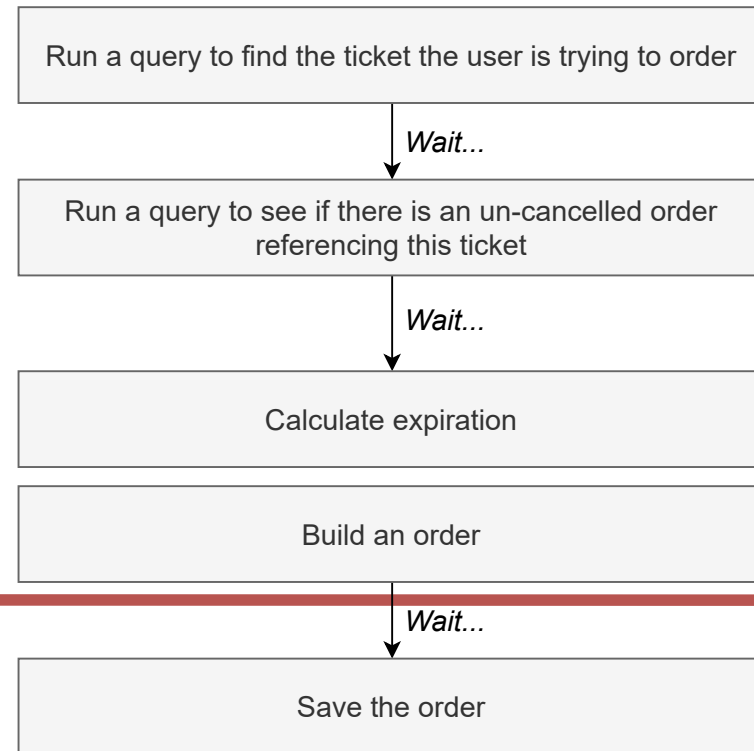


**Ticket is now reserved**

## Request #2



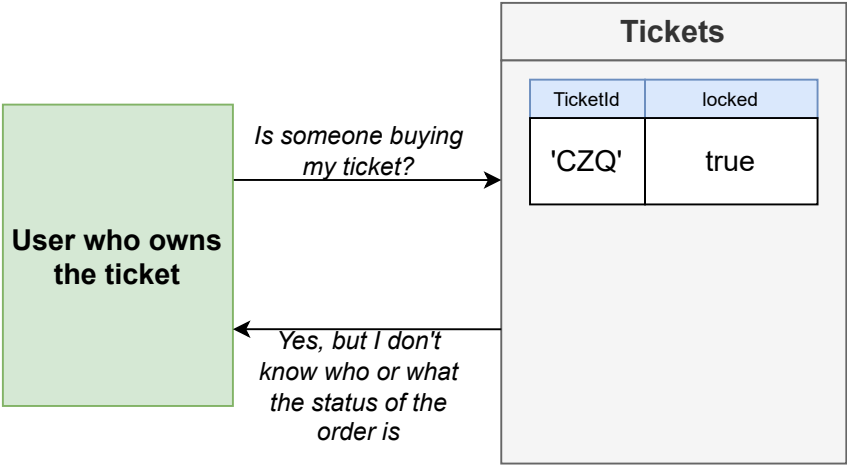
## Request #3

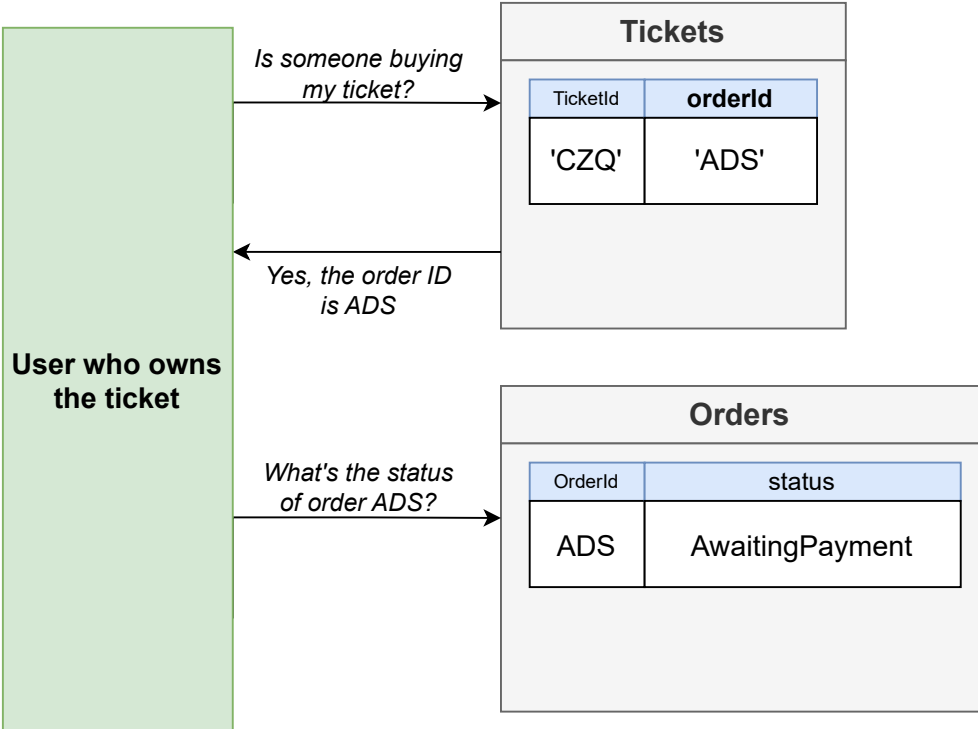


# Tickets

TicketId	locked
'CZQ'	false

*Locking a Ticket to prevent editing*





# Orders Service

TicketId	title	price	version
'CZQ'	concert	20	0



**order:created**  
id: 'ADS', ticketId: 'CZQ'

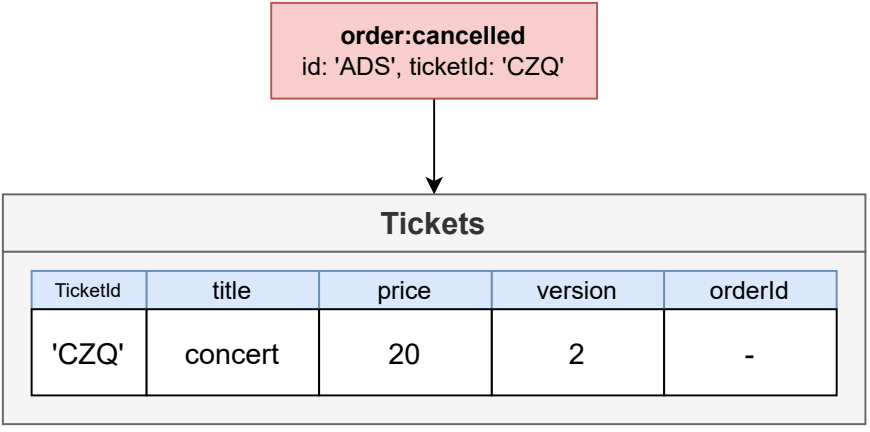


## Tickets

TicketId	title	price	version	orderId
'CZQ'	concert	20	1	ADS



**order:cancelled**  
id: 'ADS', ticketId: 'CZQ'



## Tickets

TicketId	title	price	version	orderId
'CZQ'	concert	20	2	-

## Request to Edit Ticket

id: 'CZQ', price: 30



## Tickets

TicketId	title	price	version	orderId
'CZQ'	concert	30	3	-

**Request to Edit Ticket**  
id: 'CZQ', price: 30



## Tickets

TicketId	title	price	version	orderId
'CZQ'	concert	30	3	-



**ticket:updated**  
id: CZQ, price: 30, version 3

### Request to Edit Ticket

id: 'CZQ', price: 30



## Tickets

TicketId	title	price	version	orderId
'CZQ'	concert	30	3	-



### ticket:updated

id: CZQ, price: 30, version 3



## Orders Service

TicketId	title	price	version
'CZQ'	concert	20	0

**Listener Base Class**



**OrderCreatedListener**



**TicketUpdatedPublisher**

**NatsWrapper**

**client**



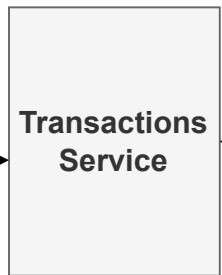
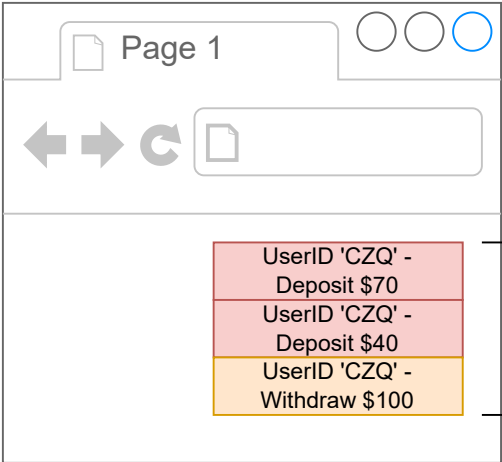
**Listener Base Class**

protected client: NatsClient

**OrderCreatedListener**

**TicketUpdatedPublisher**





Transactions DB	
UserId	Transactions
CZQ	Deposit 70, ID: 'ksjf'
	Deposit 40, ID: '5j25'
	Withdraw 100, ID: '1ko1'

**ticket:created**  
Deposit 70, id: 'ksjf'  
userId: 'CZQ', number: 1

Accounts Database		
UserId	Balance	Last Txn Number
CZQ	10	1
JP4		
KAN		

