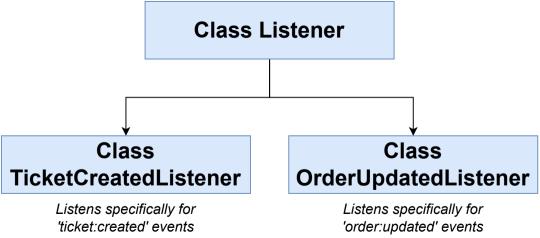
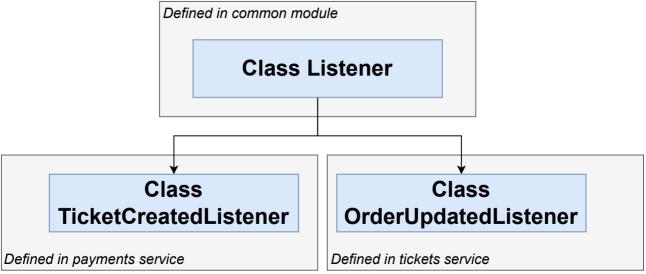
Wow, this is a lot of boilerplate to publish/receive a message! Let's try to refactor this to make it much easier to publish/receive



	Class Listener				
	Property	Туре	Goal		
abstract	subject	string	Name of the channel this listener is going to listen to		
abstract	onMessage	(event: EventData) => void	Function to run when a message is received		
	client	Stan	Pre-initialized NATS client		
abstract	queueGroupName	string	Name of the queue group this listener will join		
	ackWait	number	Number of seconds this listener has to ack a message		
	subscriptionOptions	SubscriptionOptions	Default subscription options		
	listen	() => void	Code to set up the subscription		
	parseMessage	(msg: Message) => any	Helper function to parse a message		





There is a strong mapping between subject names and event data



,				
Event	Data			ı
key	type			key
id	string			id
title	string		U	serld

number

price

,					
Event	Data			Ev	ent
key	type		,	key	

Event Data		
key	type	
id	string	

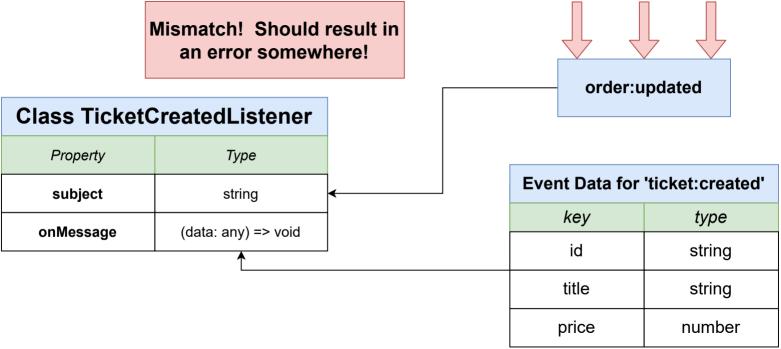
ticketId

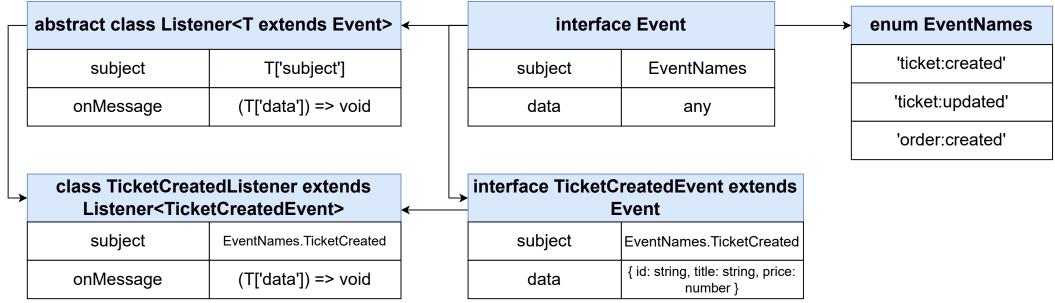
string

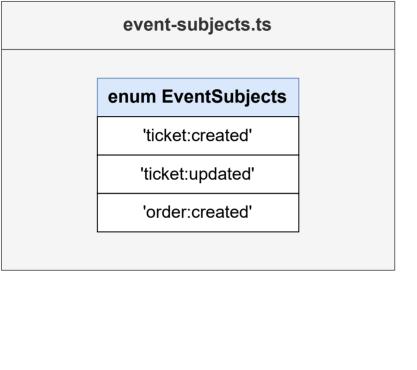
string

,			╽	
nt Data		Event		t
	type	key		
	etrina	id		Ī









interface TicketCreatedEvent subject EventSubjects.TicketCreated data {id: string, title: string, price: number } class TicketCreatedListener extends Listener<TicketCreatedEvent>

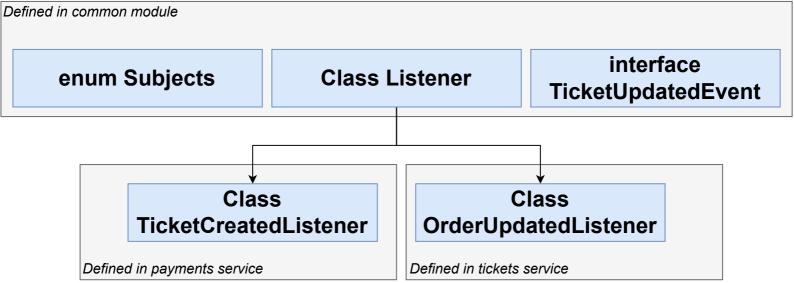
EventSubjects.TicketCreated (data:

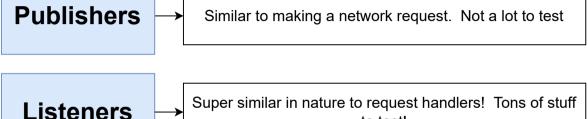
TicketCreatedEvent['data']) => void

subject

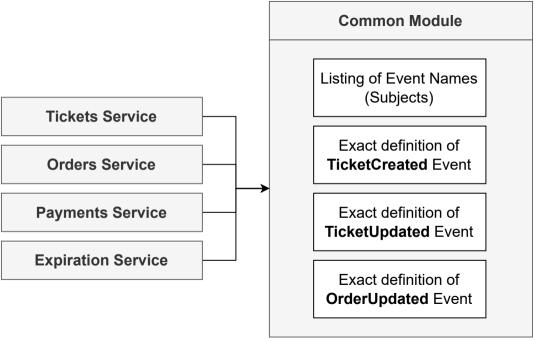
onEvent

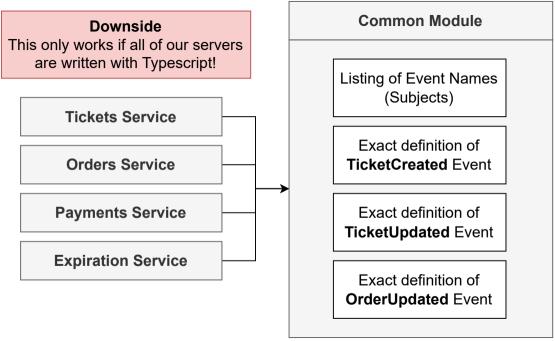
ticket-created-listener.ts





to test!





Alternatives with Cross Language Support			
JSON Schema			
Protobuf			
Apache Avro			