Services

Everything related to user auth signup/signin/signout

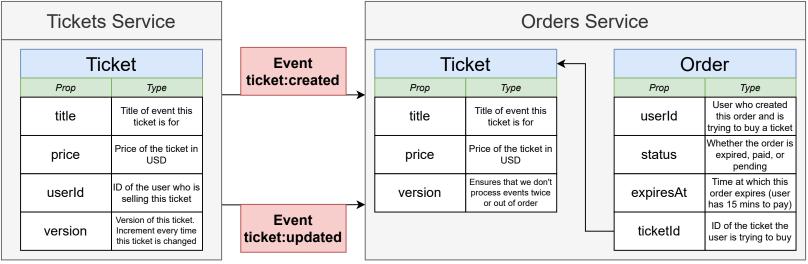
Ticket creation/editing. Knows whether a tickets ticket can be updated

orders Order creation/editing

Watches for orders to be created,

expiration cancels them after 15 minutes Handles credit card payments. Cancels orders if payments

payments fails, completes if payment succeeds



Tickets Service

Ticket Prop Type Title of event this title ticket is for Price of the ticket in price USD ID of the user who is userld selling this ticket

version

Version of this ticket.

Increment every time

this ticket is changed

ticket:updated { id: 'abc', price: 20, version: 3 } ticket:updated { id: 'abc', price: **30**, version: 4 } ticket:updated { id: 'abc', price: 10, version: 2 }

Orders Service **Ticket**



Order Prop Type

User who created userld this order and is trying to buy a ticket Whether the order is status expired, paid, or

expiresAt

ticketId

order expires (user

has 15 mins to pay)

ID of the ticket the

user is trying to buy

Time at which this

pending

Orders Service Setup Duplicate the 'tickets' service Install dependencies Build an image out of the orders service Create a Kubernetes deployment file

Set up file sync options in the skaffold.yaml file

Set up routing rules in the ingress service

| orders | | | | | | | | | |
|-----------------|--------|----------------------|--|--|--|--|--|--|--|
| Route | Method | Body | Purpose | | | | | | |
| /api/orders | GET | - | Retrieve all active orders for the given user making the request | | | | | | |
| /api/orders/:id | GET | - | Get details about a specific order | | | | | | |
| /api/orders | POST | { ticketId: string } | Create an order to purchase the specified ticket | | | | | | |
| /api/orders/:id | DELETE | - | Cancel the order | | | | | | |

We need to somehow associate Tickets and Orders together

Ticket Document

Order Document

There are two primary ways to do this with MongoDB/mongoose

Option #1 -. Embedd

| ding | | Oro |
|------|--|-----|
| | | Oit |
| | | |

der Prop

userld

status

expiresAt

ticket

1-January

Value

'abc'

{ id: 'asdf', price: 12, title: 'concert' }

'pending'

Option #1 - Querying is just a bit challenging

POST Request Create order to purchase Ticket 'asdf'

Orders Service



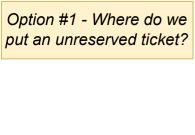
ticket

ticket { id: 'XYZ', price: 12, title: 'concert' }

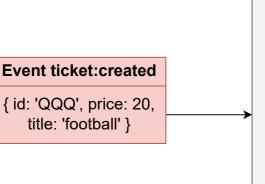
Order Doc #2

Order Doc #3

{ id: 'ASDF', price: 12, title: 'concert' }



title: 'football' }



Orders Service Order Doc #1

ticket

ticket

ticket

Order Doc #2 { id: 'XYZ', price: 12, title: 'concert' }

{ id: '123', price: 12, title: 'concert' }

Order Doc #3

{ id: 'ASDF', price: 12, title: 'concert' }

Option #2 - Mongoose Ref/Population Feature

ticket

| | | _ | | |
|----------------|-----------|----------|-------|-------------|
| Order Document | | → | Ticke | et Document |
| Prop | Value | | Prop | Value |
| userld | 'abc' | | price | 12 |
| status | 'pending' | | title | 'concert' |
| expiresAt | 1-January | _ | | |

