

Users can list a ticket for an event (concert, sports) for sale

Other users can purchase this ticket

Any user can list tickets for sale and purchase tickets

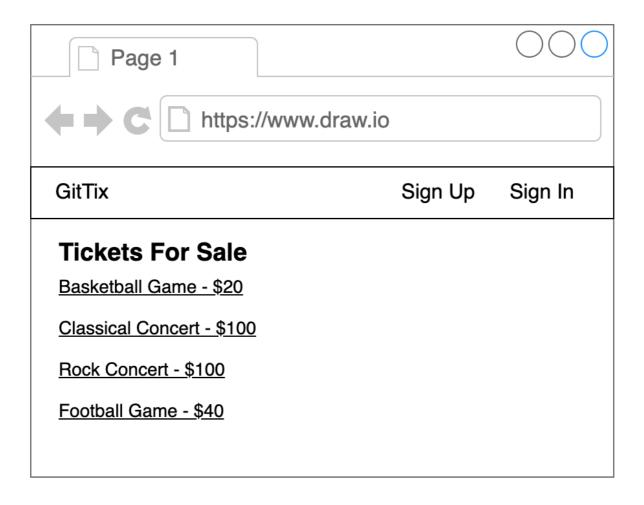
When a user attempts to purchase a ticket, the ticket is 'locked' for 10 minutes. The user has 10 minutes to enter their payment info.

While locked, no other user can purchase the ticket. After 15 minutes, the ticket should 'unlock'

Ticket prices can be edited if they are not locked

Reference : https://www.stubhub.com/

UI and UX screens



https://www.draw.io		
GitTix Sig	ın Up	Sign In
Sign Up Email Password Submit		

Page 1

https://www.draw.io

GitTix My Orders Sell Tickets Sign Out

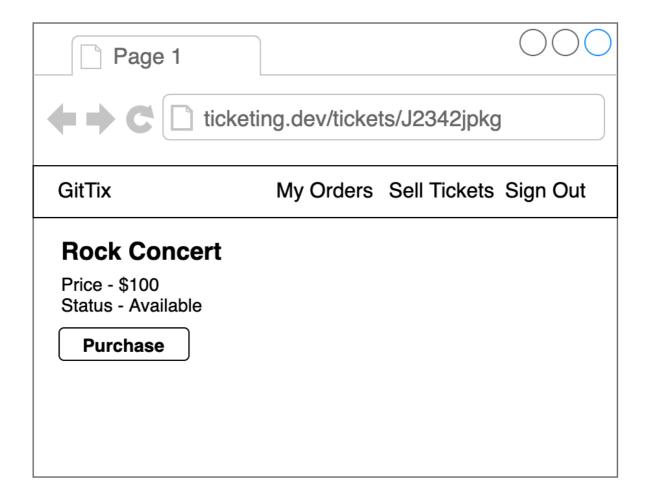
Tickets For Sale

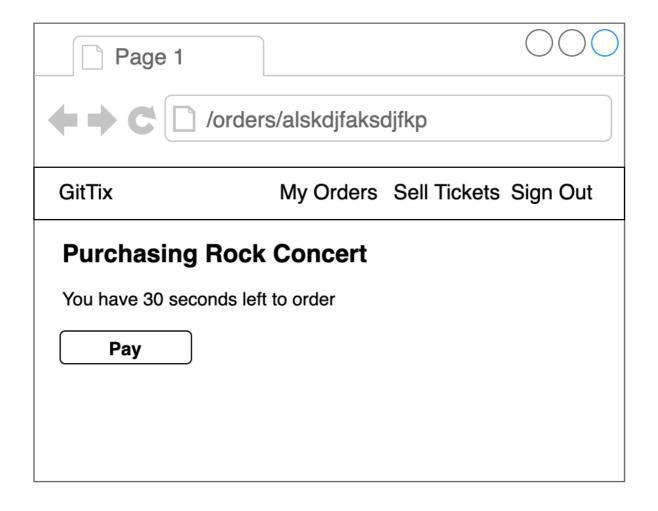
Basketball Game - \$20

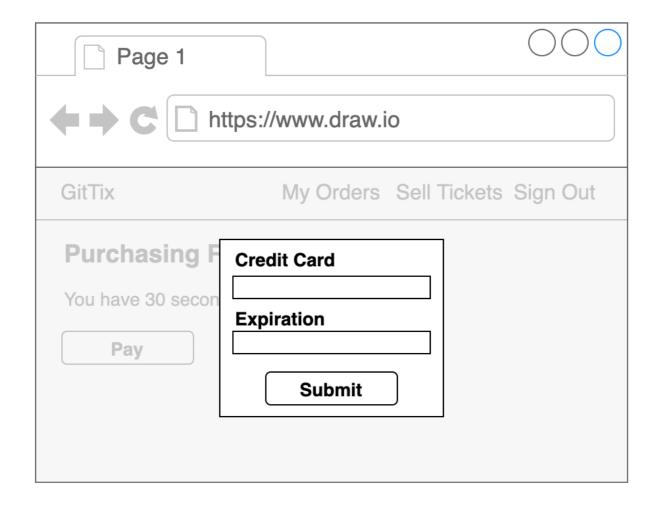
Classical Concert - \$100

Rock Concert - \$100

Football Game - \$40







Page 1			000
→ C /ticket	s/new		
GitTix	My Orders	Sell Tickets	Sign Out
Create a Ticket Title Price]		
Submit	-		ı

Resources

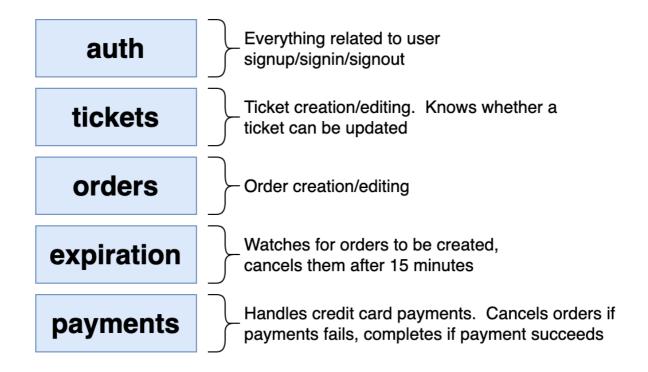
User		
Name	Type	
email	string	
password	string	

Ticket			
Name	Type		
title	string		
price	number		
userld	Ref to User		
orderld	Ref to Order		

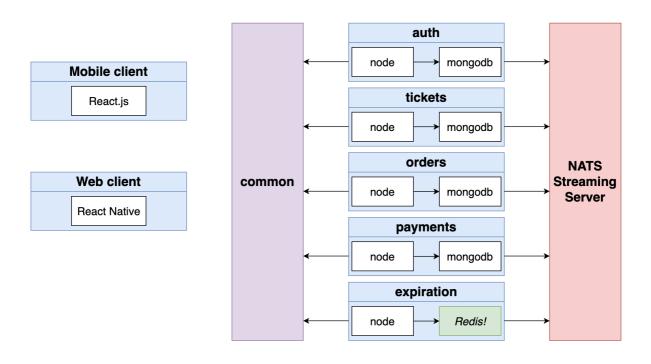
Order			
Name	Туре		
userld	Ref to User		
status	Created Cancelled AwaitingPayment Completed		
ticketId	Ref to Ticket		
expiresAt	Date		

Charge			
Name	Туре		
orderld	Ref to Order		
status	Created Failed Completed		
amount	number		
stripeld	string		
stripeRefundId	string		

Micro Services



Flow diagram

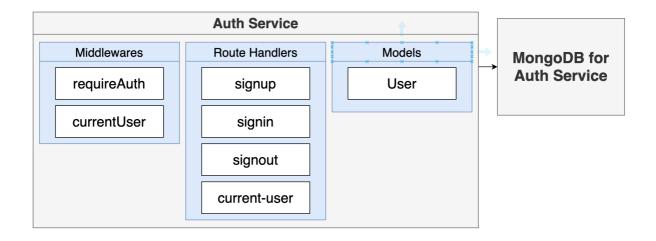


Application Events

UserCreated	UserUpdated	
OrderCreated	OrderCancelled	OrderExpired
TicketCreated	TicketUpdated	
ChargeCreated		

a. Auth Service

auth			
Route	Method	Body	Purpose
/api/users/signup	POST	{ email: string, password: string }	Sign up for an account
/api/users/signin	POST	{ email: string, password: string }	Sign in to an existing account
/api/users/signout	POST	0	Sign out
/api/users/currentuser	GET	-	Return info about the user



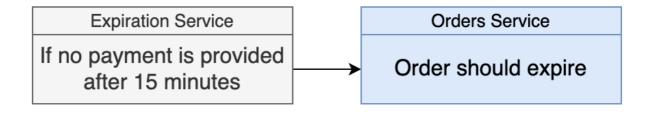
b. Ticketing Service

Tickets Service			
Route	Method	Body	Goal
/api/tickets	GET	-	Retrieve all tickets
/api/tickets/:id	GET	-	Retrieve ticket with specific ID
/api/tickets	POST	{ title: string, price: string }	Create a ticket
/api/tickets/:id	PUT	{ title: string, price: string }	Update a ticket

c. Order 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	

d. Expiration Service



Things to consider and implement in this Ticketing App

- Keep complete code on github repository with branches
- Implement CI & CI pipeline
- Build as docker images and deploy on k8s platform using Local cluster