Pages:

- Login
- Signup
- Catalog
- Event page

} user + Admins

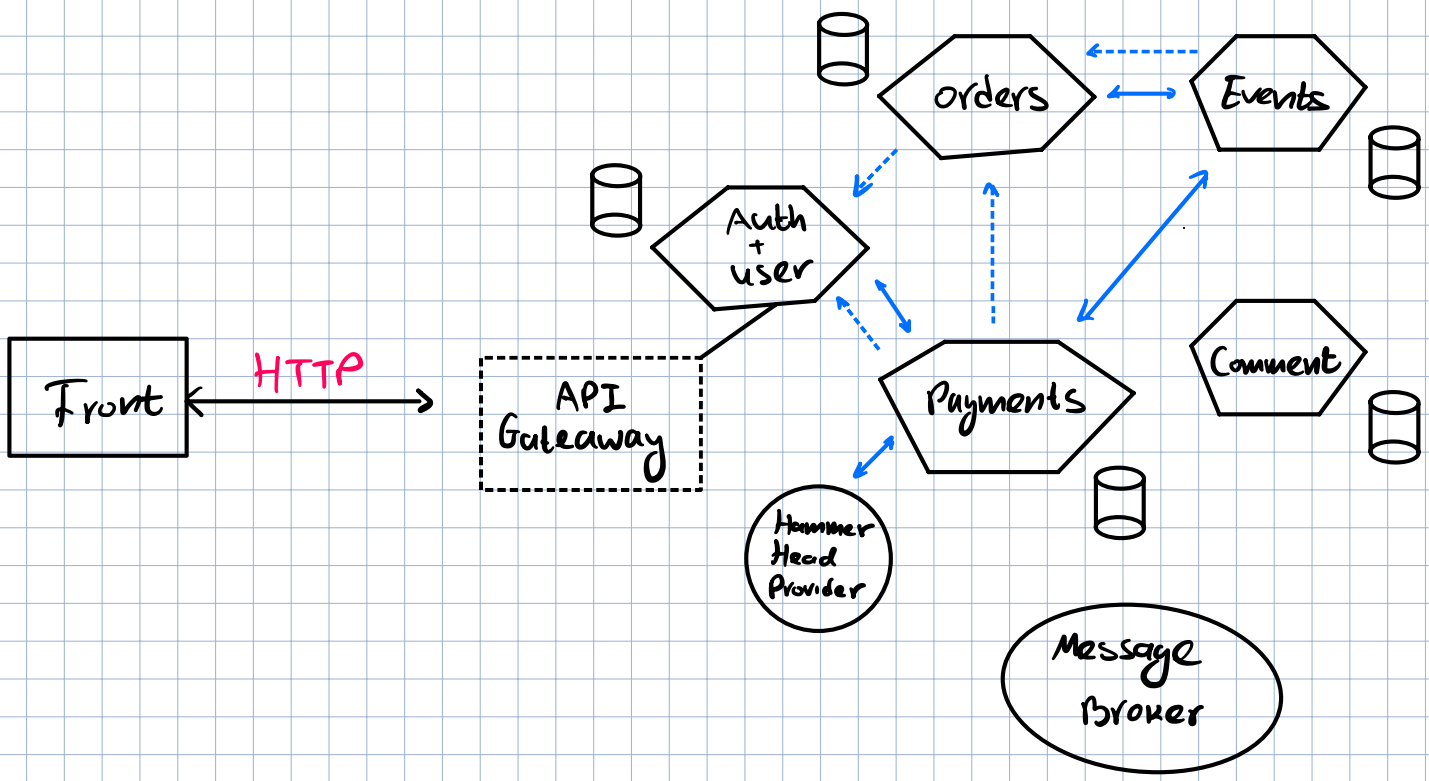
- Checkout
- Success Page
- User Space

} user only

- New Event Page
- Insert new coupon

} Admins only

All flows (Macro):



Schemas :

```ts
export interface userType {
  username: string;
  password: string;
  permission: "U" | "W" | "M" | "A";
  coupons_used: number;
  next_event: nextEventType;
}
interface nextEventType {
  title: string;
  start_date: Date;
}
```

```ts
export interface eventType {
  _id?: string;
  title: string;
  category: string;
  description: string;
  organizer: string;
  start_date: Date;
  end_date: Date;
  location: string;
  tickets: ticketType[];
  image: string;
}
```

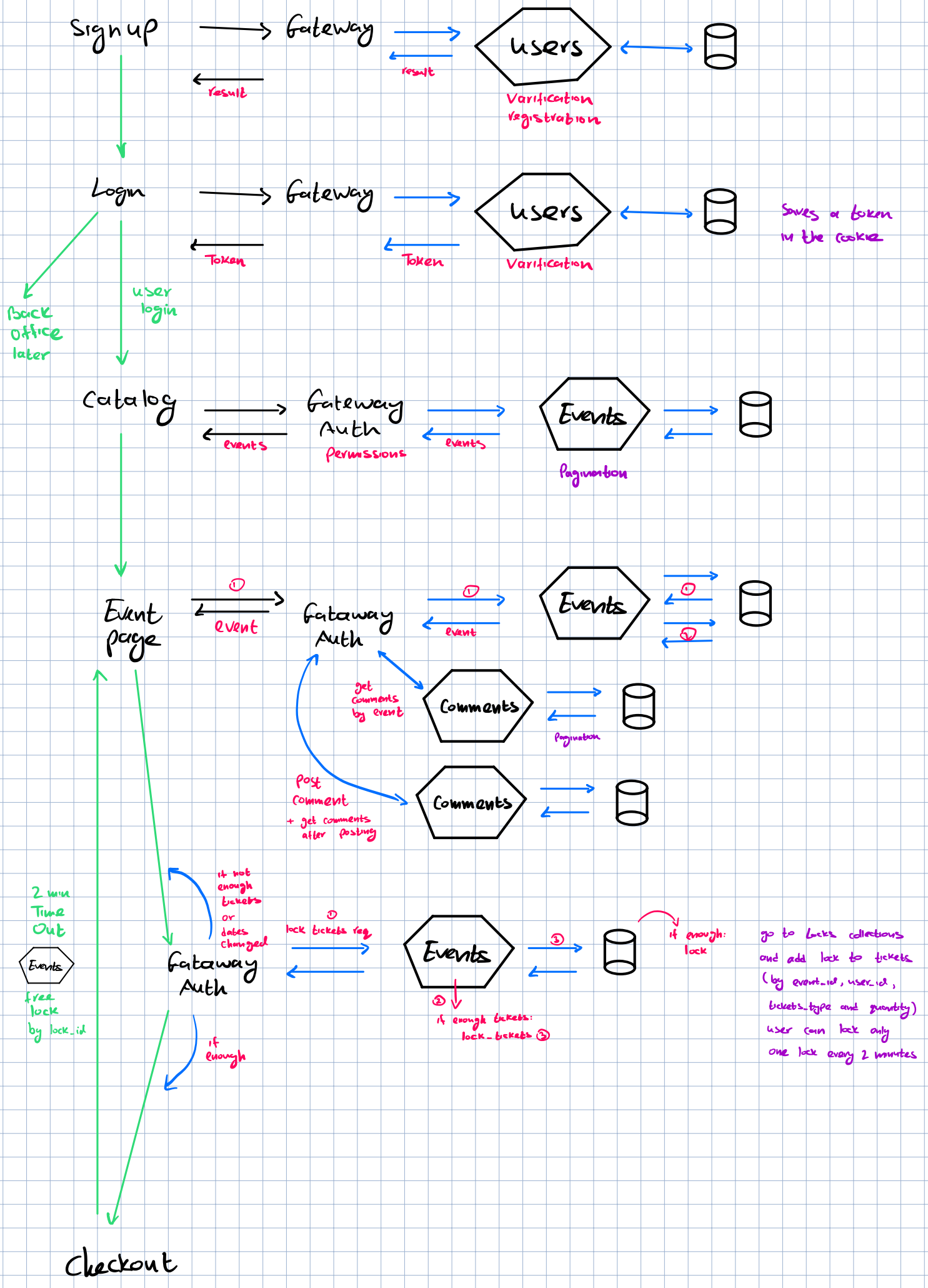
```ts
export interface ticketType {
  type: string;
  quantity: number;
  price: number;
}
export interface ticketLockType {
  username: string;
  event_id: string;
  type: string;
  quantity: number;
  expiresAt?: Date;
}
```

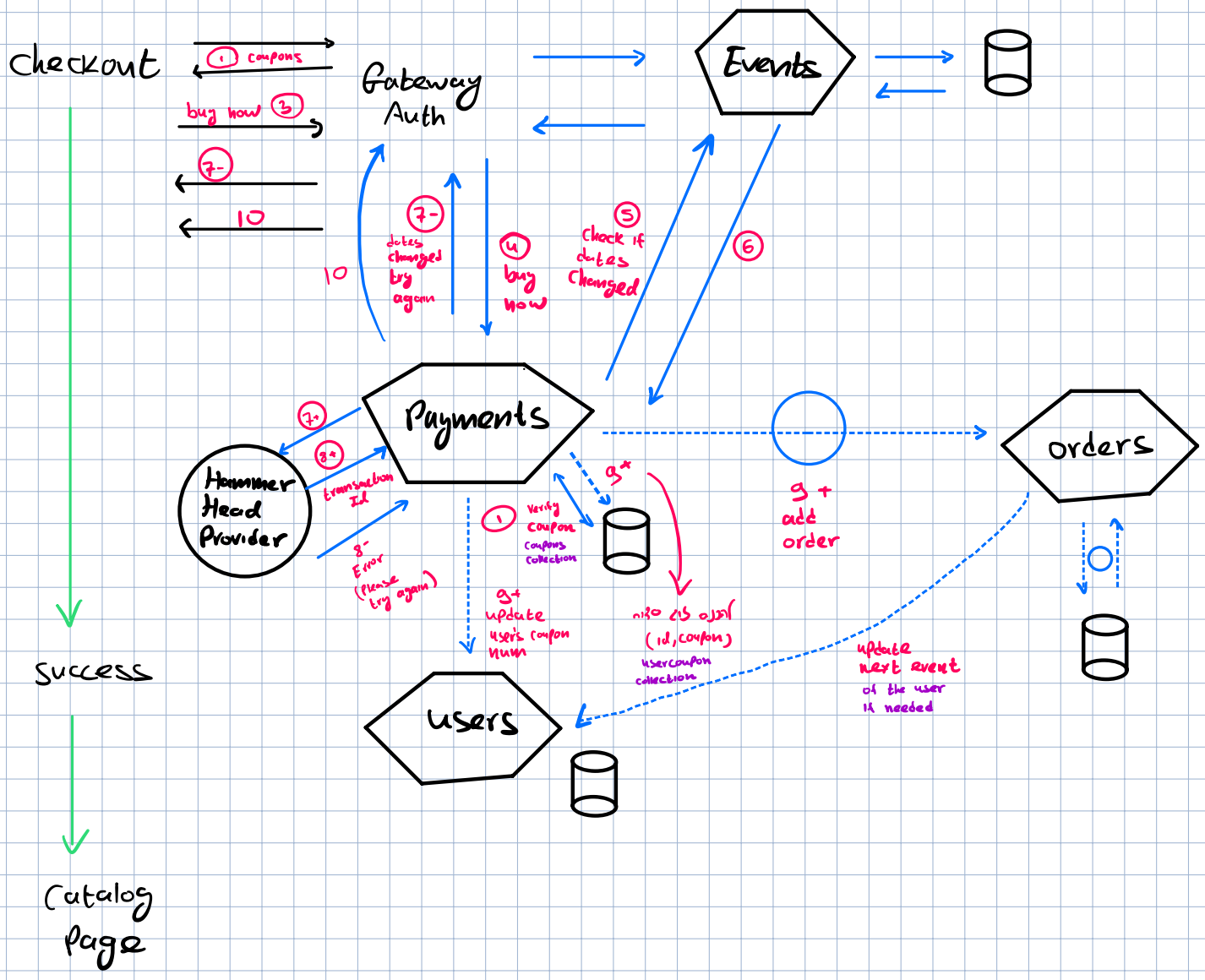
```ts
interface userCouponsType {
  code: string;
  username: string;
}
```

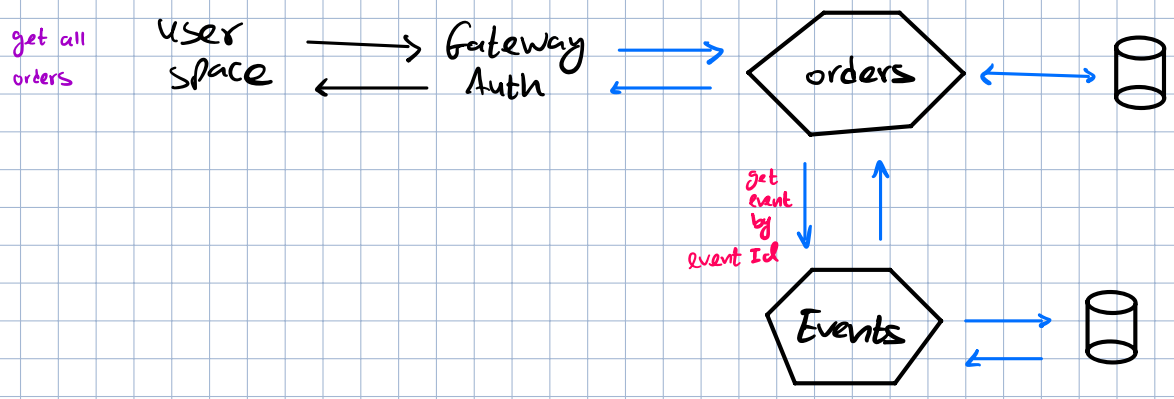
```ts
export interface couponType {
  code: string;
  discount: number;
}
```

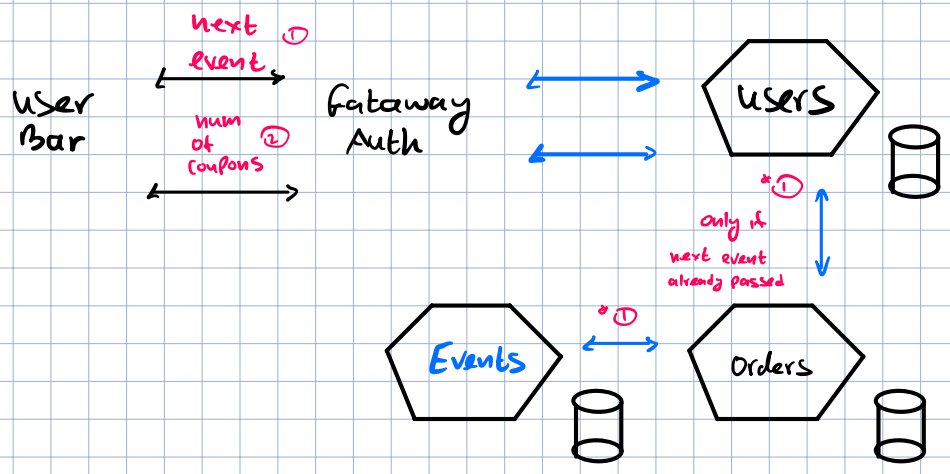
```ts
export interface orderType {
  checkout_date: Date;
  ticket_type: string;
  quantity: number;
  event_id: string;
  username: string;
}
```

```ts
interface commentType {
  event_id: string;
  username: string;
  text: string;
  date: string;
}
```

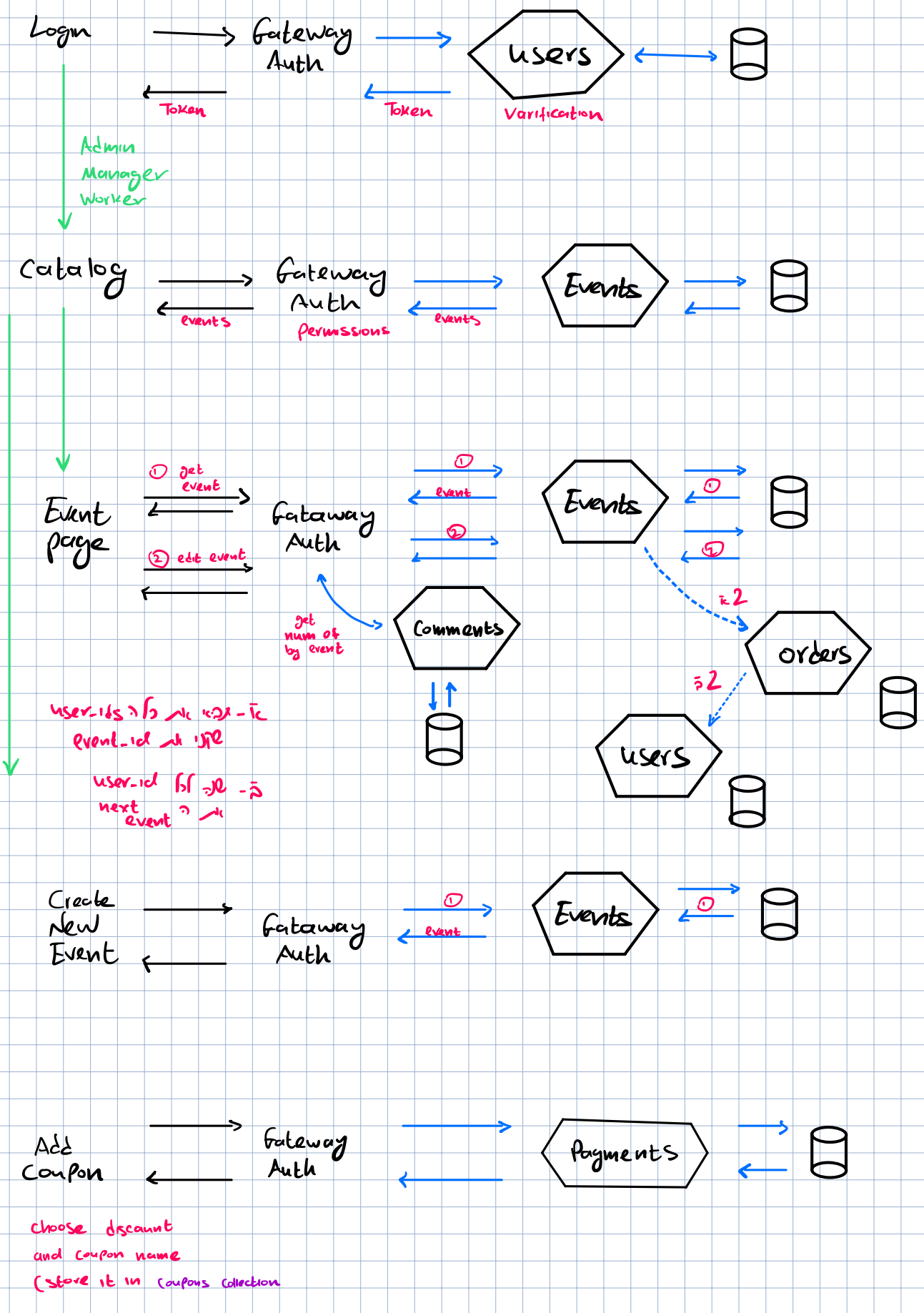

Sign up
Gateway
result
users
Verification
registration
Login
Gateway
Token
users
Verification
Saves a token in the cookie
Back Office later
user login
Catalog
Gateway Auth
events
permissions
Events
Pagination
Event page
event
Gateway Auth
Events
get comments by event
Comments
Pagination
Post comment + get comments after posting
Comments
2 min Time Out
Events
free lock by lock_id
it not enough tickets or dates changed
Gateway Auth
lock tickets req
Events
if enough: lock
if enough tickets: lock_tickets
go to locks collections and add lock to tickets (by event_id, user_id, tickets_type and quantity)
user can lock only one lock every 2 minutes
if enough
Checkout


Checkout
1- coupons
Gateway Auth
Events
buy now 3-
7-
10
7-
dates changed try again
10
4- buy now
5- Check if dates Changed
6
Payments
7*
8*
transaction Id
Hammer Head Provider
8- Error (Please try again)
1- Verify coupon
coupons collection
9*
9+ add order
orders
9+ update user's coupon num
users
Success
Catalog Page


get all orders
user space
Gateway Auth
orders
get event by event Id
Events


User Bar
next event 1-
num of coupons 2-
Gateway Auth
users
*1
only if next event already passed
Events
*1
Orders

Back office :


Login
Gateway Auth
users
Token
Token
Varification
Admin
Manager
Worker
Catalog
Gateway Auth
Events
events
events
permissions
Event page
get event
edit event
Gateway Auth
Events
Comments
get num of by event
orders
users
Create New Event
Gateway Auth
Events
Add Coupon
Gateway Auth
Payments
Choose discount and coupon name (store it in coupons collection

Endpoints

```
/* USER ROUTES */
app.post(LOGIN_PATH, loginRoute);
app.post(LOGOUT_PATH, logoutRoute);
app.post(SIGNUP_PATH, signupRoute);

app.post(NEXT_EVENT_PATH, updateNextEventRoute);
app.post(COUPONS_PATH, updateNumofCouponsRoute);
app.get(NEXT_EVENT_PATH, getNextEventRoute);
app.get(COUPONS_PATH, getNumofCouponsRoute);
app.get(USERNAME_PATH, getUserRoute);
app.put(PERMISSION_PATH, updateUserPermissionRoute);

/* EVENT ROUTES */
app.get(GET_EVENT_PATH, getEventRoute);
app.get(GET_ALL_EVENTS_PATH, getAllEventsRoute);
app.post(CREATE_EVENT_PATH, createEventRoute);
app.put(UPDATE_EVENT_DATE_PATH, updateEventDateRoute);
app.put(UPDATE_EVENT_TICKET_PATH, updateTicketRoute);
app.post(LOCK_TICKET_PATH, lockTicketRoute);
app.post(UNLOCK_TICKET_PATH, unlockTicketRoute);

/*ORDER ROUTES*/
app.post(CREATE_ORDER_PATH, createOrderRoute);
app.get(GET_USERS_BY_EVENT_PATH, getUsersByEventRoute);
app.get(GET_USER_ORDERS_PATH, getUserOrdersRoute);
app.get(GET_EVENTS_BY_USER_PATH, getEventsByUserRoute);

/* PAYMENT ROUTES */
app.get(GET_COUPON_PATH, getCouponRoute);
app.post(CREATE_COUPON_PATH, createCouponRoute);
app.post(BUY_PATH, buyRoute);

/* COMMENT ROUTES */
app.post(CREATE_COMMENT, createCommentRoute);
app.get(GET_NUM_OF_COMMENTS_BY_EVENT, getNumOfCommentsByEventRoute);
app.get(GET_COMMENTS_BY_EVENT, getCommentsByEventRoute);
```