Ticket Management System (Buy tickets)

Implement a WEB API for a ticket management system that will enable users to search for existing events in the platform, based on various criteria, and facilitates ticket orders.

1. Vom avea 2 pagini: Dashboard page (view events, GET si POST) si Orders page (view orders, GET, UPDATE si DELETE)
2. In dashboard, filter functionality for events
3. Un event este sub forma unui card care contine image, description si actions (CTA)
4. Actions contine un dropdown pentru select Ticket Category (VIP/Standard), un input pentru nr total de bilete si un buton de “Checkout/Buy” tickets (POST)
5. Fiecare order este format doar de bilete din cadrul unui singur event. Adica, userul selecteaza unul sau mai multe bilete dintr-o singura categorie (VIP/standard)
6. In pagina de Orders, userul va vedea o lista de orders, unde va putea edita ticket category (din VIP in Standard sau invers si numarul de bilete selectate) sau sa stearga intreg order-ul.
7. In orders, se poate sorta dupa pret si dupa nume.

EventT 
B EventTypelD 
EventTypeName 
Venue 
B VenuelD 
Location 
Type 
Capacity 
Event 
B EventlD 
VenuelD 
EventTypelD 
EventDescription 
EventName 
StartDate 
EndDate 
TicketCat o 
TicketCategorylD 
EventlD 
Description 
Price 
Customer 
CustomerlD 
CustomerName 
Email 
Orders 
B OrderlD 
customerlD 
ticketCategorylD 
OrderedAt 
NumberOfTickets 
totalPrice 

**Assumptions:**

* Events are already added in the database and have the following mandatory properties:
  + Name
  + Description
  + Date (when the event will be held)
  + Category
  + Price
  + Total no of seats
  + Location (physical location or online)
  + Image

***Note****: More fields can be added if needed.*

* The system is designed to cater to the needs and preferences of users who want to buy ticket (admin user functionalities are out of scope: addition of the events, etc.)

**Requirements:**

1. **Display Events**:
   * Users should be able to view all the events on the landing page.
   * The ticket management system should integrate seamlessly with the existing event database to fetch event information and update ticket availability.
2. **Ticket Search:**
   * Users should be able to search for available events and tickets based on various criteria such as event name, location or date. The system should provide accurate search results in a timely manner.
   * Users should be able to  sort the returned results by Price and by Name
3. **Ticket Purchase:**
   * Users should be able to select an event, choose the number of tickets they want to purchase and place the order
   * The system should validate the availability of tickets based on  the total no of tickets available per event
4. **Ticket Deletion**:
   * Users should have the ability to delete their purchased tickets if needed
   * (nice to have) The system should validate the user's ownership of the ticket and handle the ticket cancellation process.
5. **Error Handling and Logging**: The system should handle errors gracefully and provide meaningful error messages to users in case of failures. It should also log relevant information for troubleshooting and system maintenance purposes

**Summary**:

1. Dashboard page

- show all events

- search by name on FE

- sort by date and price

- filter by Type or Venue on BE (sort/filter by field not set in stone)

2. Orders page

- list of all orders

- edit order(Ticket category and nr of tickets)

- delete order