**Project: Ticket Booking System**

#### 1. Define

We'll start by defining an to represent the types of tickets:

Enum(Regular,VIP,Child)

#### 2. Define

Next, we'll define an to represent the basic operations in the booking system:

Interfac: IticketBooking(Bookticket,CancelTicket,DisplayAvailableTicket)

#### 3. Define

Now, we'll define a to represent the ticket and the booking system:

### ****Class: Ticket****

1. **Ticket (التذكرة)**
   * **TicketId** : Identifier, Primary Key.
   * **EventName**
   * **Type (النوع)**: نوع التذكرة (مثل: Regular, VIP, Child).
   * **Price**

#### 4. Define

We can use a to manage notifications when tickets are booked:

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#### 5. Main code

Now we write the main program to utilize the ticket booking system:

### Project Summary

* : Used to define types of tickets.
* : Represents the basic operations for booking.
* : Represents the ticket and the booking system.
* : Could be used to handle notifications, although in this example we didn't use it extensively.

**Summary of Data:**

* **Enum**:
  + : Represents the types of tickets. Values include:
    - : Standard ticket type.( Regular)
    - : Premium ticket type.(VIP)
    - : Child ticket type.(Child)
* **Classes**:
  + : Represents the details of a ticket.
    - Properties:
      * : Identifier for the ticket (Primary Key).
      * : Name of the event associated with the ticket.
      * : Type of the ticket (using enum).
      * : Price of the ticket.
    - Constructor: Initializes properties when creating a new ticket.
  + : Represents the ticket booking system.
    - Properties:
      * : A list of available tickets.
    - Methods:
      * : Books a ticket and removes it from the available tickets.
      * : Cancels a ticket by its ID (logic for cancellation needs to be implemented).
      * : Displays the list of available tickets.
  + : Contains the main code to run the system.
* **Interface**:
  + : Represents the basic operations for ticket booking.
    - Methods:
      * : Book a ticket.
      * : Cancel a ticket by its ID.
      * : Display the available tickets.
* **Delegate**:
  + : A delegate for handling events related to ticket bookings.

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