**Data dictionary document**

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# **Students' Auditorium Management System**

**Enums**

* **UserType** = [ShowManager, SalesPerson, AccountsClerk, Spectator] ---------\**Defines the role of the users interacting with the system.\**
* **TransactionStatus** = [Success, Failed, Pending] ----------------\**Status of the financial transactions.\**
* **BookingStatus** = [Confirmed, Canceled, Pending] -------------\**Status of a booking made by a spectator.\**

**Users**

* **Name** = string ---------------------------------------------------- \**The full name of the user.\**
* **Username** = string ----------------------------\**Unique identifier for logging into the system.\**
* **Role** = UserType ------------------------------\**The role that the user plays in the auditorium management system.\**
* **Password** = string -----------------------------------------------------------------------------------\**Password for user login.\**
* **ContactNumber** = string? -------------------------\**Optional contact information for users.\**
* **Users** = Name + Username + Role + Password + (ContactNumber) --- \**Information regarding the users in the system.\**

**Shows**

* **ShowName** = string ---------------------------------------------------------\**Name of the show/event.\**
* **ShowID** = integer ------------------------------------*Unique identifier for each show.\**
* **ShowDateTime** = DateTime ----------------------\**Date and time when the show is scheduled.\**
* **ShowDetails** = string? ------------------------------------------\**Optional details about the show.\**
* **Shows** = ShowName + ShowID + ShowDateTime + (ShowDetails) ---------------------------------\**Information about the shows managed by the system.\**

**Seats**

* **SeatNumber** = integer --------------------------------------------\**Unique seat number.\**
* **SeatType** = [Regular, Premium, VIP] -----------------------------------\**Category of the seat.\**
* **BookingStatus** = BookingStatus -------------------------------------------------\**Current booking status of the seat.\**
* **Seats** = SeatNumber + SeatType + BookingStatus ---------------\**Information about the seats in the auditorium.\**

**Bookings**

* **BookingID** = integer -------------------------------\**Unique identifier for each booking transaction.*
* **Spectator** = User -------------------------------------\**Spectator making the booking.\**
* **Show** = Show ------------------------------------------------\**Show for which the booking is made.\**
* **Seats** = {Seat}\* --------------------------------------\**Seats booked by the spectator.\**
* **BookingStatus** = BookingStatus -----------------------------------\**Current status of the booking.\**
* **TotalAmount** = float ------------------------------------------\**Total cost of the booking.\**
* **Bookings** = BookingID + Spectator + Show + Seats + BookingStatus + TotalAmount --------------------\**Information about the bookings made for a show.\**

**Transactions**

* **TransactionID** = integer --------------------\**Unique identifier for each transaction.\**
* **Booking** = Booking ------------------\**The booking related to the transaction.\**
* **TransactionAmount** = float ------------------------\**Amount for the transaction.\**
* **TransactionDateTime** = DateTime ----------------------\**Timestamp of the transaction.\**
* **TransactionStatus** = TransactionStatus -----------------------------\**Status of the financial transaction.\**
* **Transactions** = TransactionID + Booking + TransactionAmount + TransactionDateTime + TransactionStatus ---------------------------------------------------------------------------------------\**Information about the financial transactions.\**

**Expenditure**

* **ExpenditureID** = integer ---------------------------\**Unique identifier for each expenditure\**
* **ExpenseDetails** = string ---------------------------\**Details of the expenditure.\**
* **Amount** = float --------------------------------------\**Amount spent.\**
* **DateOfExpenditure** = DateTime ---------------------------------\**Date when the expenditure occurred.\**
* **Expenditures** = ExpenditureID + ExpenseDetails + Amount + DateOfExpenditure ----------\**Information about the expenditure records.\**

**Reports**

* **ReportID** = integer ----------------------------\**Unique identifier for each report.\**
* **ReportType** = [Sales, Booking, Expenditure] ------------------------\**Type of report being generated.\**
* **GeneratedBy** = User ---------------------------------\**The user who generated the report.\**
* **ReportDateTime** = DateTime ------------------------\**Timestamp when the report was generated.\**
* **Reports** = ReportID + ReportType + GeneratedBy + ReportDateTime --------------------\**Information about reports generated in the system.\**