## DBMS Project Problem Statement

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## **Event Ticket Booking System**

This system should be designed to manage tickets for small events, college fests, or workshops. By creating tables for event listings, seat categories, user bookings, and related data, you can explore how to handle concurrency when multiple users attempt to book the same spot.

## **Key Functionalities:**

- 1 Event and Ticket Tables: Design tables to link seat availability, price tiers, and user information.
- 2 SQL Queries for Booking and Cancellations: Ensure seat counts adjust correctly after every transaction, maintaining consistency.
- 3 Concurrency Control: Prevent duplicate bookings or seat over-allocation by using transaction locking or isolation levels.
- 4 Indexing for Quick Look-ups: Enable real-time queries to check seat availability in specific
- 5 Support for multiple event listings and seat categories.
- 6 Online reservation and cancellation functionality.
- 7 Real-time seat availability queries.