

# Ticket Shop Application

Author: Giuroiu Tudor

## Description of a Ticket Shop Application:

The Ticket Shop Application is a database-driven system designed to manage the sale of tickets for various events. This application provides a comprehensive and user-friendly platform for event organizers, customers, and administrators. It leverages a well-structured database with interconnected tables, offering flexibility and efficiency in handling event details, ticket sales, orders, and user accounts. Below is an overview of the key components and features of this application:

### **Events:**

The "events" table stores information about various events, including their title, date, location, and age limit.

Event organizers can create and manage events, specifying details such as event title, date, venue, and the minimum age required for attendance.

### **Tickets:**

The "tickets" table records the available tickets for each event, including the type of ticket and its price.

Event organizers can define different types of tickets, each with its own pricing.

### **Discount Codes:**

The "discount\_codes" table contains discount codes associated with specific events.

Event organizers can create promotional discount codes that customers can apply during the checkout process.

### **Users:**

The "users" table manages user profiles, storing information such as first name, last name, email, age, and password.

Customers can create accounts, providing personal details for a more convenient ticket purchasing experience.

#### **Orders:**

The "orders" table tracks customer orders, recording user IDs, the total price of the order, and the order date.

Customers can place orders for tickets, and the system calculates the total price based on their selected tickets and any applied discount codes.

#### **Order Details:**

The "order\_details" table links individual tickets to orders, specifying the quantity of each ticket purchased.

This table allows for the association of multiple tickets with a single order, enabling customers to buy tickets for multiple events in a single order.

#### **Key Relationships:**

The application maintains relationships between the tables to ensure data consistency and integrity. For instance, "discount\_codes" are associated with specific "events" through a many-to-one relationship, allowing event-specific discounts. Similarly, "tickets" are linked to "events" and "orders," enabling the tracking of ticket sales and the calculation of order totals.

Overall, the Ticket Shop Application simplifies the ticket purchasing process for customers, empowers event organizers to efficiently manage their events and ticket offerings, and provides administrators with the tools to oversee and maintain the system. With the underlying database structure and its defined relationships, this application offers a robust foundation for a seamless and organized ticket sales experience.

Maybe adding possibility to login as an Event host and post some events.  
Possibility to login as an User and buy tickets.

