Online Event Booking System - Project Report

## Project Title

Online Event Booking System

## Developer

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## Technologies Used

- Frontend: HTML, CSS, JavaScript (with Lucide Icons)  
- Backend: PHP (Core PHP)  
- Database: MySQL (XAMPP server)  
- Tools: VS Code, phpMyAdmin, Browser DevTools

## Project Overview

This project is a fully responsive online event booking system that allows users to browse, book, and manage events. Admins can create and manage events, while users can register, login, and book available tickets. It supports dynamic event listings, booking confirmation, and a streamlined checkout process. The site is designed for mobile and desktop compatibility.

## Key Features:

## User Functionality

- Registration/Login: Secure session-based authentication system.  
- Browse Events: Dynamic event cards pulled from a MySQL database.  
- Category Filter: Filters events by types like Music, Comedy, Live Shows.  
- Event Booking: Select tickets, view booking summary, and confirm booking.  
- Checkout Page: Displays event name, ticket count, and pricing.  
- Confirmation Page: Booking record inserted into the database with timestamp.  
- My Bookings Page: View all bookings with pagination and cancellation.  
- Profile Dropdown: Displays user’s name and email, with navigation to 'My Bookings' and 'Logout'.

## Admin Functionality

- Login System: Separate owner login with access to admin dashboard.  
- Event Management: Add, edit, delete events directly from the admin panel.  
- View Messages: Admin-only page to view messages submitted from the Contact Us form.

## Other Pages

- Landing Page: Hero image, category filter, and featured events.  
- About Page: Details about the company with styled content and stats.  
- Contact Page: Submission form with backend integration and alert confirmation.  
- Responsive Design: Navbar with hamburger menu on mobile; fluid grid layout for event cards.

## Database Structure

- users: id, name, email, password  
- events: id, title, category, date, venue, image, available\_tickets, price  
- bookings: id, user\_id, event\_id, tickets\_booked, booked\_at, is\_paid  
- messages: id, name, email, message, submitted\_at

## Challenges Overcome

- Ensuring category filtering didn’t break the grid layout.  
- Correcting booking logic to ensure tickets update in the database and reflect on UI.  
- Integrating profile data into the header without creating an extra profile page.  
- Handling mobile responsiveness for event cards and navigation.

## Pending Enhancements (Optional)

- Payment Gateway Integration (e.g., Razorpay or Stripe)  
- Admin dashboard for managing users and messages  
- Email confirmations for bookings  
- Export booking history as PDF or print

## Conclusion

This event booking system is a complete, secure, and scalable solution for managing events and ticketing online. With a clean UI and strong backend structure, it offers a smooth user experience and robust admin control.