

Event Booking System Documentation

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Introduction

About the System

The Event Booking System is a comprehensive web application designed to streamline the process of event management and ticket booking. This platform connects event organizers with attendees through an intuitive and secure interface.

Key Features

✦ For Users

- Easy event browsing and searching
- Secure account management
- Simple booking process
- Order tracking
- Password recovery

✦ For Administrators

- Event management dashboard
 - User management
 - Booking oversight
 - Analytics and reporting
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System Analysis & Design

Use Case Diagram

[Use Case Diagram] *Use Case Diagram showing system actors and their interactions*

Key Actors

1. Guest User

- Browse events
- Register account
- Search events

2. Registered User

- Book events
- Manage profile
- View bookings
- Make payments
- Cancel bookings

3. Administrator

- Manage events
- Manage users
- Handle bookings
- Generate reports
- System configuration

Class Diagram

[Class Diagram] *Class Diagram showing system structure and relationships*

Key Classes

1. User

```
- id: int
- username: string
- email: string
- password: string
- role: enum
+ register()
+ login()
+ updateProfile()
```

2. Event

```
- id: int
- title: string
- description: string
- date: datetime
- venue: string
- price: decimal
+ create()
+ update()
```

```
+ delete()
+ getAvailability()
```

3. Booking

```
- id: int
- userId: int
- eventId: int
- quantity: int
- status: enum
+ create()
+ cancel()
+ updateStatus()
```

Getting Started

System Requirements

Server Requirements:

- PHP 7.4+
- MySQL 5.7+
- Apache/Nginx
- 512MB RAM minimum
- 1GB storage minimum

Supported Browsers:

- Chrome (latest)
- Firefox (latest)
- Safari (latest)
- Edge (latest)

Installation Guide

1. Database Setup

```
CREATE DATABASE event_booking;
USE event_booking;
```

 Database Setup *phpMyAdmin database creation screen*

2. Configuration Edit `config/database.php`:




```
define('DB_HOST', 'localhost');
define('DB_USER', 'your_username');
```

```
define('DB_PASS', 'your_password');  
define('DB_NAME', 'event_booking');
```

 Configuration *Configuration file setup*


User Guide

Registration Process


1. Click "Register" in the navigation bar  Registration Button
2. Fill in your details  Registration Form *User registration form with validation*
3. Verify your email (if enabled)  Email Verification *Email verification screen*

Booking an Event

Step 1: Finding Events

- Use the search bar
- Browse categories
- Apply filters  Event Search *Event search and filter interface*

Step 2: Event Selection

- View event details
- Check availability
- Read terms  Event Details *Detailed event view with booking options*

Step 3: Booking Process

1. Select quantity
2. Add to cart
3. Review order
4. Confirm booking  Booking Process *Step-by-step booking process*

Managing Your Bookings

- View all bookings
 - Check booking status
 - Download tickets
 - Cancel bookings (if allowed)  My Bookings *User bookings management interface*
-

Administrator Guide


Dashboard Overview

The admin dashboard provides a comprehensive view of:

- Recent bookings
- Popular events
- User statistics
- Revenue overview  Admin Dashboard *Administrator dashboard overview*

Event Management

Creating Events

1. Access event management
2. Click "Add New Event"
3. Fill event details:
 - Title
 - Description
 - Date & Time
 - Venue
 - Price
 - Category
 - Upload images  Event Creation *Event creation form*

Managing Events


- Edit event details
- Update availability
- Cancel events
- View bookings  Event Management *Event management interface*

User Management

- View all users
- Edit user roles
- Reset passwords
- Manage permissions  User Management *User management interface*

Technical Documentation

Database Schema

 Database Schema *Complete database relationship diagram*

Security Implementation

```
// Authentication
function authenticateUser($email, $password) {
    // Secure authentication code
}

// Session Security
```

```
session_set_cookie_params([
    'lifetime' => 3600,
    'secure' => true,
    'httponly' => true,
    'samesite' => 'Strict'
]);
```

API Documentation

Available Endpoints

GET	/api/events	- List all events
POST	/api/bookings	- Create booking
GET	/api/users	- List users (Admin)

 API Documentation *API documentation interface*


Security & Maintenance

Security Features

1. Data Protection

- Password hashing (bcrypt)
- CSRF protection
- XSS prevention  Security Features *Security implementation overview*


2. Regular Maintenance

- Daily backups
- Weekly security scans
- Monthly updates  Maintenance Schedule *Maintenance schedule and procedures*


Troubleshooting Guide

Common Issues and Solutions

1. Login Issues

- Clear browser cache
- Reset password
- Check email verification  Login Troubleshooting *Login troubleshooting steps*

2. Booking Problems

- Check availability
- Verify payment
- Contact support  Booking Issues *Booking troubleshooting guide*

System Updates

- Regular security patches
 - Feature updates
 - Performance optimization  *Update Process System update procedure*
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Support Information

Contact Details

- Technical Support: support@eventbooking.com
- Admin Support: admin@eventbooking.com
- Emergency: +1-234-567-8900

Resources

- User Forum: forum.eventbooking.com
 - FAQ: eventbooking.com/faq
 - Documentation: docs.eventbooking.com
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