



# WEB DEVELOPMENT

(MINI PROJECT)

# **Project Report: Event Management System**

NAME	ARMAAN SINGH
UID	23BCA10363
SECTION	23BCA-3A
SUBJECT	WEB DEVELOPMENT
SUBJECT CODE	23CAH-254
SUBMITTED TO	MS. PARDEEP KAUR
DATE	25/3/2025





# **CONTENT: -**

- 1) INTRODUCTION
- 2) FLOWCHART
- 3) SOURCE CODE
- 4) OUTPUT
- **5) FINAL RESULT**
- 6) LEARNING OUTCOME

## 1. INTRODUCTION

The Event Management System is a web-based application developed using PHP, MySQL, HTML, CSS, and JavaScript. This system provides a comprehensive platform for managing events, allowing users to register, log in, browse various events, and book tickets. Traditional event management methods are time-consuming, prone to errors, and lack scalability. This system addresses these challenges by offering an automated and user-friendly platform for organizing and attending events. The platform is designed for both event organizers and attendees, enabling event creation, registration tracking, and seamless bookings. This report documents the system's development, including PHP and Apache installation, database design, user authentication implementation, UI creation, and profile picture uploads. Additionally, it highlights key learning outcomes related to modern web development practices.

## 2. ALGORITHM AND FLOWCHART

### **Algorithm for Event Management System**

- 1. A structured flowchart visually represents the overall process, including user registration, authentication, event browsing, booking, and profile management.
- 2. SOURCE CODE The source code includes the following major components:
- Database Connection: Secure connection using MySQLi.
- User Authentication: Login, registration, session management.
- **Event Management:** Event creation, listing, filtering, and booking.
- User Dashboard: Profile updates, bookings management, profile picture upload.
- CSS & JavaScript: Enhancing UI interactivity and responsiveness.
- 4. OUTPUT Key outputs include:
- User Dashboard: Displays user profile, booked events, and event recommendations.
- Event Listings: Users can view and search for events.
- Booking Confirmation: Users receive confirmation after successfully booking an event.
- Admin Panel: Manages events, categories, and user registrations.

# Source code:(db\_connect,php, login.php, logout.php my-event.php,home.php)

```
<?php
$servername = "localhost:3307";
$username = "root1; // Change as per your MySQL configuration.
$password = ""; // Change as per your MySQL configuration
$dbname = "event_management";</pre>
    $conn = new mysqli($servername, $username, $password, $dbname);
    // Create database if it doesn't exist

$\sql = "CREATE DATABASE IF NOT EXISTS $\forall \text{dbname}";

if (\$\compare\text{f}(\sql) === \text{TRUE} \{

// Database created successfully or already
    $conn->select_db($dbname);
// Create users table if it deserve sects
$\foatsql$ ("CREATE TABLE IF NOT EXISTS users (
id INT(6) UNSIGNED AUTO_INCREMENT PRIMARY KEY,
first_name VARCHAR(5e) NOT NULL,
last_name VARCHAR(5e) NOT NULL,
contact VARCHAR(5b) NOT NULL,
$\frac{1}{2} \text{VARCHAR(5b)} \text{VARCHAR(5b)} \text{VARCHAR(5b)} \text{VARCHAR(5c)} \text{VARCHAR(5
                        contact VARCHAR(15) NOT NULL,
password VARCHAR(25) NO TNULL UNTQUE,
password VARCHAR(255) NOT NULL,
event_interest VARCHAR(26) NOT NULL,
profile_picture VARCHAR(255) DEFAULT NULL,
reg_date TIMESTAMP DEFAULT CURRENT_TIMESTAMP
// Create events table if it doesn't exist
$sql = "CREAT TABLE I FO DEXISTS events (
id INT(6) UNSIGNED AUTO_INCREMENT PRIMARY KEY,
event_mame VARCHAR(IMB) NOT NULL,
description TEXT,
created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
                        echo "Error creating table: " . $conn->error;
                      Id INI(6) UNSIGNED AUTO_INCREMENT PRIMARY KEY,
usen_di INI(6) UNSIGNED NOT NULL,
event_id INI(6) UNSIGNED NOT NULL,
registration_date INMESTAMP DEFAULT CURRENT_TIMESTAMP,
UNIQUE KEY (usen_id, event_id),
FOREIGN KEY (usen_id) REFERENCES usen=(id) ON DELETE CASCADE,
FOREIGN KEY (event_id) REFERENCES events(id) ON DELETE CASCADE
  // Insert default events if they don't exist
$events = ["Dance", "Music", "Poetry", "Art", "Theater", "Photography", "Film", "Literature", "Fashion", "Technology"];
foreach ($events as $event) {
    $stat = $conn-prepare("$ELECT " FROM events WHERE event_name = ?");
    $stat-sbind_param("s", $event);
    $stat-secure();
}*result = $stat->get_result();
                      if ($result->num_rows == 0) {
    $stmt = $conn->prepare("INSERT INTO events (event_name, description) VALUES (?, ?)");
    $description = "This is a " . $event . " event.";
    $stmt->brind_param("ss", $event, $description);
    $stmt->execute();
```

```
<?php
session_start();
include 'db_connect.php';</pre>
 // Check if user is already logged
if (isset($_SESSION['user_id'])) {
    header("Location: home.php");
    exit();
  if ($_SERVER["REQUEST_METHOD"] == "POST") {
      $email = trim($_POST['email']);
$password = trim($_POST['password']);
      // Valuate mail
if (empty(semail)) {
    Serrors['email'] = "Email is required";
} elecif ([fitter_var(Semail, FitTER_VALIDATE_EMAIL)) {
    Serrors['email'] = "Invalid email format";
}
      if (empty($password)) {
    $errors['password'] = "Password is required";
       // If no errors, check credentials
if (empty($errors)) {
   $stnt = $conn->prepare("SELECT id, first_name, last_name, password FROM users WHERE email = ?");
   $stnt->ind_parent("s", $email);
   $stnt->execute();
   $result = $stnt->get_result();
                    // Password is correct, start a new session
$_SESSIOM['user_id'] = $user['id'];
$_SESSIOM['first_name'] = $user['first_name'];
$_SESSIOM['last_name'] = $user['last_name'];
                     // Redirect to home page
header("Location: home.php");
exit();
                ext(),
) else (
   $errors['login'] = "Invalid email or password";
 clink*
c/heady
chody>
chody>
chody
class="container">
cdiv class="form-container">
cdiv class="form-container">
chi>login
chi>login
               <pr
                <div class="form-group">
     <button type="submit">Login</button>
       <script src="script.is"></script>
  </body>
```

```
• • •
session_start();
if (!isset($_SESSION['user_id'])) {
   header("Location: login.php");
$registered_events = [];
$stmt = $conn->prepare("
    FROM events e
     JOIN event_registrations er ON e.id = er.event_id
    WHERE er.user_id = ?
ORDER BY er.registration_date DESC
$stmt->bind_param("i", $user_id);
$stmt->execute();
if ($result->num_rows > 0) {
    while($row = $result->fetch_assoc()) {
         $registered_events[] = $row;
$stmt->close();
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>My Events - Event Management System</title>
<link rel="stylesheet" href="styles.css">
</head>
<body>
         <header class="main-header">
             <h1>My Events</h1>
                       <a href="home.php">Home</a>
                       <a href="my-events.php" class="active">My Events</a>
                      <a href="about.php">About</a><a href="logout.php">Logout</a>
             </nav>
         </header>
         <div class="content">
             <div class="my-events-section">
                  <h2>Events You're Registered For</h2>
                  <?php if (empty($registered_events)): ?>
                          You haven't registered for any events yet. <a href="events.php">Browse events</a> to find something you're interested in!
                  <?php else: ?>
                       <div class="events-grid">
                            <?php foreach ($registered_events as $event): ?>
                                <div class="event-card">
                                     <div class="event-card-image">
                                          <img src="uploads/event<?php echo $event['id']; ?>.jpg" alt="<?php echo htmlspecialchars($event['event_name']); ?>">
                                        <h3><?php echo htmlspecialchars($event['event_name']); ?></h3>
<?php echo htmlspecialchars(substr($event['description'], 0, 100) . '...'); ?>
                                     <div class="event-card-footer">
                                         v class="date"x<php echo date('F j, Y', strtotime($event['created_at'])); ?></span>
<a href="event-details.php?id=<?php echo $event['id']; ?>" class="btn btn-small">View Details</a>
                           <?php endforeach: ?>
                  <?php endif; ?>
    </div>
```

```
document.addEventListener("DOMContentLoaded", () => {
   const registrationForm = document.getELementById("registrationForm")
      if (registrationForm) {
  registrationForm.addEventListener("submit", (event) => {
    let hasError = false
                // Get form fields
const firstName = document.getElementById("first_name")
const lastName = document.getElementById("last_name")
const contact = document.getElementById("contact")
const email = document.getElementById("email")
const password = document.getElementById("password")
const confirmPassword = document.getElementById("confirm_password")
const eventInterest = document.getElementById("event_interest")
                 // Clear previous error messages
const errorElements = document.querySelectorAll(".error")
errorElements.forEach((element) => {
   element.textContent = ""
                  3-5
                 // Validate first name
if (firstName.value.trim() === "") {
    showError(firstName, "First name is required")
    hasError = true
} else if (!/^[a-zA-Z]*$/.test(firstName.value.trim())) {
    showError(firstName, "Only letters and white space allowed")
}
                       hasError =
                 // Validate last name
if (lastName.value.trim() === "") {
    showError(lastName, "Last name is required")
    hasError = true
} else if (!/^[a-ZA-Z ]**/.test(lastName.value.trim())) {
    showError(lastName, "Only letters and white space allowed")
    hasError = true
                 // Validate contact
if (contact.value.trim() === "") {
   showError(contact, "Contact number is required")
   hasError = true
} else if (!/^[0-9]{10}$/.test(contact.value.trim())) {
   showError(contact, "Contact must be 10 digits")
}
                        hasError =
                                                           true
                 // Validate email
if (email.value.trim() === "") {
    showError(email, "Email is required")
    hasError = true
} else if (!/^[^\s@]+\@[^\s@]+\.[^\s@]+$/.test(email.value.trim())) {
    showError(email, "Invalid email format")
    hasError = true
                 // Validate password
if (password.value === "") {
    showError(password, "Password is required")
    hasError = true
} else if (password.value.length < 8) {
    showError(password, "Password must be at least 8 characters")
}</pre>
                       hasError =
                 // Validate confirm password
if (confirmPassword.value === "") {
    showError(confirmPassword, "Please confirm your password")
    hasError = true
} else if (password.value !== confirmPassword.value) {
    showError(confirmPassword, "Passwords do not match")
    hasError = true
}
                 // Validate event interest
if (eventInterest.value === "") {
    showError(eventInterest, "Please select an event")
    hasError = true
                 // Prevent form submission if there are errors
if (hasError) {
   event.preventDefault()
      // Client-side validation for login form
const loginForm = document.getElementById("loginForm")
      if (loginForm) {
    loginForm.addEventListener("submit", (event) => {
    let hasError = false
                  // Get form fields
const email = document.getELementById("email")
const password = document.getELementById("password")
                 const errorElements = document.querySelectorAll(".error")
errorElements.forEach((element) => {
  element.textContent = ""
                 // Validate email
if (email.value.trim() === "") {
    showError(email, "Email is required")
    hasError = true
} else if (!/^[^\s@]+\[[^\s@]+\[[^\s@]+$/.test(email.value.trim())) {
    showError(email, "Invalid email format")
    hasError = true
}
```



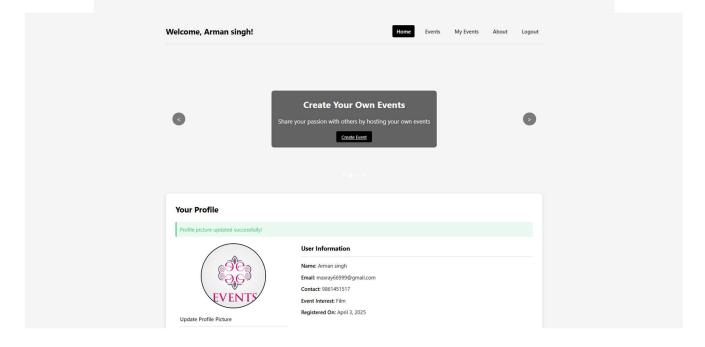






## **Output:**

	Login
Email	
Password	
	Login
	Don't have an account? Register







# Register

Last Name		
Contact Number		
Email		
Password		
Confirm Password		
Event Interest		
Select an event	~	
	Register	
	Already have an account? Login	-





## 3. FINAL OUTCOME

## **Key Features and Outputs**

#### • User Interface:

- Responsive, visually appealing layout.
- Mobile-friendly design.
- o Interactive UI components.

#### • Authentication System:

- Secure registration and login.
- o Password hashing for security.
- Session-based authentication.

#### Event Management:

- Dynamic event listings with filters.
- Event pages with detailed descriptions and booking options.

#### • Database Implementation:

- o Optimized MySQL schema with foreign key relationships.
- Secure queries using prepared statements.

#### Booking System:

- o Real-time ticket availability updates.
- User dashboard for managing bookings.

#### 6. LEARNING OUTCOME PHP Development Skills:

- Setting up a PHP development environment.
- Implementing form validation and session management.
- Secure authentication using password hashing.
- Applying Object-Oriented Programming (OOP) principles in PHP.

#### **Database Design and Management:**

- Designing a normalized database schema.
- Using foreign keys for relational integrity.
- Implementing secure database queries.





#### **Frontend Development:**

- Creating responsive layouts using CSS and JavaScript.
- Integrating UI libraries like Bootstrap and Font Awesome.

#### **Security Implementation:**

- Input sanitization to prevent XSS attacks.
- Role-based access control for user authentication.

#### **Project Management & Problem-Solving:**

- Structuring code for maintainability and scalability.
- Debugging and resolving integration issues.

**Conclusion:** The Event Management System successfully integrates multiple technologies into a functional web application. It streamlines event management processes, enhances user engagement, and serves as a practical demonstration of full-stack web development techniques.