

Functional Requirements

1. User Registration & Login (Students, Organizers, Admin)
2. Event Creation, Editing & Deletion
3. Event Calendar & Conflict Detection
4. Venue Selection & Capacity Estimation (AI-based)
5. Online Event Registration & Attendance Tracking
6. Certificate Generation & Download
7. Notifications & In-app Messaging
8. File Upload/Download (Images, Certificates, Docs)
9. Admin Approval & User Management
10. Dashboard for Analytics & Reports

Non-Functional Requirements

1. Performance: Fast page load, handles multiple users simultaneously
2. Security: Secure authentication, role-based access, data encryption
3. Scalability: Supports increasing users and events without performance drop
4. Usability: Simple, user-friendly, mobile-responsive interface
5. Reliability: System uptime with minimal errors or crashes
6. Compatibility: Works across major browsers and devices
7. Data Backup & Recovery: Regular backups to prevent data loss
8. Maintainability: Easy to update, debug, and extend features