

Project 16

Timely - Online Sports Events Management System

INTRODUCTION

Organizing a sport or recreation event can be a daunting task, particularly for an individual or committee planning an event for the first time. While the scale of the events varies dramatically, the principles of event management essentially remain the same. This information sheet provides an overview of some of the major issues to consider when planning and running an event.

Planning and preparation

Effective planning and preparation are crucial to the success of an event. There are numerous elements involved in planning and preparation.

Purpose of the event

In planning an event it is important to understand why the event is being held, who it is for and who it will benefit. Having a clear focus and defined objectives will help direct the planning process.

Timing and location of the event

When and where an event takes place can have a significant impact on its overall success. When considering the best time of the day, month or year to hold an event, it is important to consider other events that may compliment or compete with the event you are organizing.

With regard to location, there are many variables to consider, including the availability of facilities, accommodation, transport, and the support of local stakeholders.

The organizing committee and event manager

There is usually more than one person involved in organising a sport or recreation event. In many cases it is useful to establish an organising committee and clearly assign roles and responsibilities to committee members. There

should be an event manager appointed who has overall control of the event and is ultimately responsible for the major decisions and directions of the committee.

Event checklist

In order to allocate responsibilities to individuals on the organizing committee, the committee must have a clear idea of all the different aspects of the event, including venue, equipment, staffing, communication, catering, garbage, toilets, money handling, medical, hospitality, transport, prizes, trophies and ceremonies. It is useful to compile an event plan, or checklist, which will ensure that all aspects of the event are considered and adequately addressed in the planning stages. See the example event checklist at the end of this document to help you organize your event.

Objectives

The Sports Event Management System (SMS) objective is to provide which manages the activity of many sports at a time. It also manages the selection activity of students to college and to state level. The users will consume less amount of time when compared to manual paper work through the automated system. The system will take care of all the servicing activity in a quick manner. Data storing is easier. It will be able to check any report at any time Purpose this purpose of this request is to provide detail how this system manages the activity of much sport at a time. It also deals with the selection of student at collages, university and even at state level. This system will provide the serving activity in quick and easy manner. It will consume less amount of time as it is based on automatic system Scope Sport Event management system is the application of project management to the creation and development of festivals and Events.

Event delivery

If sufficient time and effort has been put into planning and preparation, the event should run smoothly. The event manager should have a checklist of tasks with periods to keep the event on track. Effective communication is essential to ensure the event goes to plan. There will always be minor difficulties and challenges; however, hopefully most of these will have been considered and

there will be contingency plans to address problems as they arise. During the event, it is important to take the time to publicly acknowledge the contribution of staff, volunteers and sponsors.

Post event

After the event has been held, the following should occur:

- Formally thank all those involved in organizing and running the event
- Provide sponsors with a report on the event and thank them for their involvement
- Contact the media with any final results and media releases
- Pay any outstanding accounts
- Review the event and keep an accurate record of the organizing committee's methods and activities in order to learn from any mistakes and to make the process of organizing future events easier.

Existing Solution:

- Its manual process for earlier system.
- Its chance to lose our record or data.
- If we search any details for old records its take more time consuming process.
- We can search only few category details.

Proposed Solution:

The proposed system consists to actors they are Admin and User. Admin can post their details like event location, day, type of events and some common details. They are multiple admin can post details in this system.

User can view the events details. And they can search any type of category like date, year, location, event and etc. they can also view last 10 years records details via this system.

Here National level, District level, Zonal level sport details also update every time.

OVERALL DESCRIPTION OF THE PROPOSED SYSTEM

Module Description

System Modules:

1. User Management Module

- User registration and login
- Profile management (Athlete, Coach, Spectator, Organizer, Admin)
- Password reset and account recovery
- Role-based access control
- Identity verification for participants

2. Event Creation and Management Module

- Create new sports events or competitions
- Define event details (name, date, location, sport type)
- Set participant eligibility criteria
- Manage event status (Upcoming, Ongoing, Completed)
- Edit or cancel events

3. Participant Registration Module

- Online registration for athletes and teams
- Collect personal and team details
- Upload required documents (ID, medical clearance)
- Payment for registration fees
- Provide confirmation and receipts

4. Scheduling and Fixtures Module

- Create event schedules and match fixtures
- Manage time slots and venues
- Auto-generate round-robin or knockout fixtures
- Allow rescheduling by organizers
- Publish schedule for participants and spectators

5. Ticketing and Payments Module

- Sell tickets for events and matches
- Support multiple payment methods
- Issue digital tickets with QR codes
- Track ticket sales and revenue
- Handle refunds and cancellations

6. Team and Athlete Management Module

- Register and manage teams or individual athletes
- Assign team managers or coaches
- Track player rosters and substitutions
- Maintain athlete profiles and stats
- Approve or reject participant entries

7. Results and Scoring Module

- Record match results and scores
- Update leaderboards and standings
- Enter individual athlete statistics
- Support manual and automated scoring
- Publish results for public viewing

8. Notifications and Communication Module

- Send email/SMS notifications for schedule changes
- Confirm registrations and payments
- Remind participants about upcoming matches
- Announcements for event updates
- Internal messaging between participants and organizers

9. Spectator Portal Module

- Browse upcoming events and matches
- Purchase tickets online

- View event schedules and fixtures
- Check results and leaderboards
- Receive event news and updates

10. Media and Gallery Module

- Upload and manage photos and videos of events
- Link media to specific matches or events
- Allow users to browse media gallery
- Enable sharing on social media
- Admin moderation of uploaded content

11. Venue Management Module

- Add and edit venues or locations
- Define venue details (address, capacity, facilities)
- Assign venues to matches or events
- View venue availability calendar
- Track venue bookings and conflicts

12. Admin Dashboard and Management Module

- Manage users and roles
- Oversee events and participant registrations
- View ticket sales and financial reports
- Access system logs and audit trails
- Configure system settings and preferences

13. Reporting and Analytics Module

- Generate registration statistics
- View ticket sales and revenue reports
- Analyze event attendance and participation trends
- Monitor match results and performance stats
- Export reports in PDF or CSV format

14. Content Management Module

- Manage static pages (About Us, FAQs, Contact)
- Post news articles or event announcements
- Upload promotional banners and images
- Edit SEO settings for website
- Schedule content publishing

Functional Requirements

FR1. Allow users to register with email verification.

FR2. Provide secure login and logout functionality using PHP sessions.

FR3. Enable password reset and account recovery.

FR4. Let users edit personal profile information.

FR5. Enforce role-based access for Athletes, Coaches, Spectators, Organizers, and Admins.

FR6. Enable organizers to create new sports events with name, date, sport type, and location.

FR7. Store event details in a MySQL database.

FR8. Allow editing or cancellation of events by authorized users.

FR9. Display a list of upcoming, ongoing, and completed events on the website.

FR10. Set participant eligibility criteria during event creation.

FR11. Allow athletes or teams to register for events online.

FR12. Collect personal and team details and store them in MySQL.

FR13. Support uploading required documents (e.g., ID, medical clearance) with PHP file handling.

FR14. Process payment for registration fees through integrated payment gateway.

FR15. Send confirmation email with receipt after successful registration.

FR16. Enable organizers to create and edit event schedules.

FR17. Allow auto-generation of round-robin or knockout fixtures.

FR18. Store schedules and fixtures in MySQL with match dates, times, and venues.

FR19. Allow rescheduling of matches by authorized users.

FR20. Display published schedules on participant dashboards.

- FR21.** Allow spectators to purchase tickets online.
- FR22.** Support multiple payment methods integrated via PHP.
- FR23.** Issue digital tickets with unique QR codes.
- FR24.** Track ticket sales and store payment records in MySQL.
- FR25.** Enable users to view purchased tickets in their profile.
- FR26.** Let organizers register and manage teams and athletes.
- FR27.** Assign coaches or managers to teams.
- FR28.** Track player rosters and substitutions.
- FR29.** Store athlete profiles and statistics in MySQL.
- FR30.** Approve or reject participant entries through an admin interface.
- FR31.** Enable recording of match results and scores.
- FR32.** Update event leaderboards and standings in real-time.
- FR33.** Record individual athlete statistics.
- FR34.** Support manual result entry via web forms.
- FR35.** Display results publicly on the event page.
- FR36.** Send email or SMS notifications for event schedule changes.
- FR37.** Confirm registration and payment to users automatically.
- FR38.** Remind participants of upcoming matches.
- FR39.** Broadcast announcements for event updates.
- FR40.** Enable internal messaging between participants and organizers.
- FR41.** Provide a public portal for spectators to browse upcoming events.
- FR42.** Display event schedules and fixtures.
- FR43.** Enable online ticket purchasing through integrated payment forms.
- FR44.** Show match results and leaderboards.
- FR45.** Post event news and updates.
- FR46.** Allow upload and management of event photos and videos.
- FR47.** Link media content to specific matches or events.
- FR48.** Provide a public media gallery on the site.
- FR49.** Enable social media sharing of event photos.
- FR50.** Include admin moderation for all uploaded content.
- FR51.** Manage venue records in the database.
- FR52.** Store venue details including address, capacity, and facilities.
- FR53.** Assign venues to scheduled matches or events.
- FR54.** Display venue availability on admin dashboards.
- FR55.** Track and resolve venue booking conflicts.

- FR56.** Provide an admin dashboard with site-wide statistics.
- FR57.** Enable management of user accounts and roles.
- FR58.** Oversee all events and participant registrations.
- FR59.** View ticket sales and financial reports.
- FR60.** Configure system settings through a secure admin panel.
- FR61.** Generate and display registration statistics.
- FR62.** Provide detailed ticket sales and revenue reports.
- FR63.** Analyze event attendance and participant trends.
- FR64.** Report match results and athlete performance stats.
- FR65.** Enable export of reports in PDF or CSV format.
- FR66.** Manage static pages such as About Us, FAQs, and Contact.
- FR67.** Post event news, updates, or announcements.
- FR68.** Upload and manage promotional banners.
- FR69.** Allow scheduled publishing of content.
- FR70.** Configure SEO metadata for site optimisation

Non-Functional Requirements

1. Performance Requirements

- NFR1.** Support at least 200 users with page response times under 2 seconds for most operations.
- NFR2.** Handle large data sets for participant lists, fixtures, and results without noticeable slowdowns.
- NFR3.** Ensure smooth pagination and search functionality using efficient SQL queries.
- NFR4.** Optimize database queries and indexes to minimise load times on high-traffic pages.

2. Security Requirements

- NFR5.** Encrypt sensitive user data such as passwords using secure hashing algorithms (e.g., bcrypt in PHP).
- NFR6.** Enforce HTTPS for all data transmission to protect against interception.
- NFR7.** Use prepared statements or ORM to prevent SQL injection in MySQL queries.
- NFR8.** Implement secure session management in PHP to prevent hijacking.

NFR9. Enforce role-based access control across all features.

NFR10. Log all critical user actions (logins, payments, changes) for auditing.

3. Availability Requirements

NFR11. Ensure at least 99.5% system uptime excluding planned maintenance.

NFR12. Provide clear maintenance notices to users in advance.

NFR13. Design for easy deployment on load-balanced web servers if needed.

4. Reliability Requirements

NFR14. Guarantee data integrity during transactions, including payments and registrations.

NFR15. Provide database backups at least daily.

NFR16. Enable recovery within 4 hours in the event of critical system failure.

NFR17. Avoid loss of confirmed registrations or payment records under any failure condition.

5. Usability Requirements

NFR18. Deliver a user-friendly interface for all roles (Athletes, Spectators, Organizers, Admins).

NFR19. Support responsive design for desktop, tablet, and mobile browsers.

NFR20. Provide clear, human-readable validation errors and help messages.

NFR21. Ensure accessible design compliant with WCAG 2.1 Level AA guidelines where possible.

6. Compatibility Requirements

NFR22. Support major modern browsers (Chrome, Firefox, Safari, Edge).

NFR23. Ensure compatibility with PHP 7.4 or newer.

NFR24. Support MySQL 5.7 or newer with InnoDB storage engine.

NFR25. Ensure consistent behaviour across mobile and desktop views.

7. Scalability Requirements

NFR26. Design database schemas with normalisation to reduce redundancy.

NFR27. Allow horizontal scaling of PHP web servers behind a load balancer.

NFR28. Enable database replication for read-heavy operations if needed.

NFR29. Allow modular addition of new features with minimal refactoring.

8. Maintainability Requirements

NFR30. Follow PSR-12 coding standards in PHP for consistency.

NFR31. Document code and database schema with inline comments and external guides.

NFR32. Use MVC or similar structured design to simplify maintenance.

NFR33. Provide admin tools to manage users, events, payments, and content easily.

NFR34. Log application errors with meaningful diagnostics.

9. Audit and Compliance Requirements

NFR35. Maintain audit logs of all sensitive operations (registrations, payments, user role changes).

NFR36. Retain logs for at least 12 months.

NFR37. Ensure data privacy handling complies with relevant regulations (e.g., GDPR if applicable).

NFR38. Allow export of audit logs for review by authorized administrators.

10. Backup and Recovery Requirements

NFR39. Perform automated daily backups of MySQL databases.

NFR40. Support on-demand manual backups initiated by admins.

NFR41. Store backups securely with access restrictions.

NFR42. Provide recovery procedures that restore full service within 4 hours of a critical failure.

11. Legal and Ethical Requirements

NFR43. Display clear Terms of Service and Privacy Policy to all users.

NFR44. Obtain user consent for data collection during registration.

NFR45. Provide users with the ability to request data deletion in line with privacy regulations.

NFR46. Handle personal and payment data ethically and securely at all times.

Hardware Requirement: Should be recommended by the developers.

Software Requirement: Should be recommended by the developers.

