

Sports Club Management System

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ABSTRACT

The SJBIT Sports Management System is a web-based platform developed to efficiently manage and streamline sports-related activities at SJB Institute of Technology. The system provides essential features such as membership registration, event scheduling, facility booking, and payment management, catering to the needs of both students and administrators. Built using HTML, CSS, JavaScript, MySQL, and PHP, the system ensures a user-friendly experience with a focus on accessibility, performance, and scalability.

Key functionalities include OTP authentication, photo uploads, and an interactive dashboard for administrators to monitor bookings, payments, and event participation. The system also offers WhatsApp/SMS notifications for booking confirmations and event updates, ensuring effective communication. Students can select their preferred sports, book facilities, and stay updated on events, while administrators can manage schedules, handle payments, and track facility usage seamlessly.

The SJBIT Sports Management System serves as a centralized platform for sports activity management, providing a streamlined solution that improves organizational efficiency, enhances user engagement, and simplifies sports event coordination within the institution.

1-INTRODUCTION

The SJBIT Sports Management System is an innovative platform designed to streamline and enhance the management of sports and fitness activities at SJBIT. This comprehensive system facilitates efficient scheduling, booking, and

tracking of sports facilities and events, ensuring a seamless experience for faculty, students, and others.

With features such as real-time booking management, attendance tracking, and performance analytics, the system aims to foster a vibrant sports culture within the institution. By providing easy access to facility schedules and event notifications, the SJBIT Sports Management System promotes active participation and engagement among members.

Our commitment to leverage technology in sports management not only enhances organizational efficiency but also enriches the overall experience for our athletic community, empowering them to pursue their fitness and competitive goals

2-LITERATURE SURVEY

This literature survey aims to provide a comprehensive overview of existing research and developments in the field of sports management systems. It will explore various components of SMS, including athlete performance tracking, event management, marketing strategies, engagement. Additionally, the survey will examine the role of information technology in facilitating these processes, highlighting the emergence of software solutions, mobile applications, and datadriven decision- making. By synthesizing current literature, this survey will identify key trends, challenges, and future directions in sports management. It will serve as a foundation for understanding how sports organizations leverage innovative management systems improve operational efficiency, enhance athlete



performance, and foster a more engaging experience for fans. Ultimately, this investigation seeks to contribute to the ongoing discourse in sports management and provide insights for practitioners and researchers alike.

Fotiadis, Anestis. (2020). Sports Management, Project Management, and Sports Event Management. 10.4018/978-1-7998-4757-1.ch001.

Event management requires the use of project management and organizational skills to envision, plan, and execute social and business events. It involves studying the brand, identifying its target audience, devising the event concept, and coordinating the technical aspects before actually launching the event. Individuals who develop expertise in event management work in principle with budgets, schedules, and vendors and thirdservice providers, party and community stakeholders guaranty that they create successful events that meet the needs of their organization or the expectations of their client.. Fotiadis, Anestis. (2020). Sports Management, Project Management, and Sports Event Management. 10.4018/978-1-7998-4757-1.ch001. Event management requires the use of project management and organizational skills to envision, plan, and execute social and business events. It involves studying the brand, identifying its target audience, devising the event concept, and coordinating the technical aspects before actually launching the event. Individuals who develop expertise in event management work in principle with budgets, schedules, and vendors and third-party service providers, and community stakeholders guaranty that they create successful events that meet the needs of their organization or the expectations of their client.

Wen, Yang & Wang, Feng. (2022). Design and Application of Major Sports Events Management

Information System Based on Integration Algorithm. Computational Intelligence and Neuroscience. 2022. 1-10. 10.1155/2022/6480522. Wen, Yang & Wang, Feng. (2022). Design and Application of Major Sports Events Management Information System Based Integration on Computational Algorithm. Intelligence Neuroscience. 2022. 1-10. 10.1155/2022/6480522. With the rapid development of social economy and the change of ideology, people are increasingly enthusiastic about participating in sports events. How to make better use of the existing massive network data of sports events to solve the overload of information circulation of sports events has become a potential application problem to promote the development of sports information digitalization. Based on this problem orientation, this paper chooses to study the common characteristics of the current Internet data of sports events and the corresponding and applicable event recommendation technology and constructs feasible event recommendation model as the main direction of solution. The competition information system is the core technology system of the games and the central nervous system of the games. By summing up the previous high-level comprehensive games, the competition information system should serve the competition, command, media, and the public. The smooth construction and stable operation of the perfect design of the competition information system will reflect the organization level of the games and guarantee the success of the games. At the same time, it has certain guiding significance for the design of the competition information system of the large-scale comprehensive games in **Sports** Event Management In India Dr. Usha Tiwari Associate Professor, Department Of Physical Education, Central University South Bihar, Gaya And Team.



Sports event whose concept came in 1950's in India when the Asian Game was hosted in New Delhi from where the establishment of sporting event management started. It was designed for the continuous and proper monitoring of sports and event management with the purpose of understanding the upsetting growth in sports event management in Indian Economy. This research explores and describes the concise overview of various popular sports events in India and how they organized . Sport management includes any combination of principles related to planning, organizing, directing, budgeting, advertising, leading and evaluating with the reference to organization whose primary service is related with sports (Dispense, Kelley, Blanton and Beitel, 2003). The major advantage of sports event management is to planning, organizing, advertising the skills to envision and execute the sporting event. Various sporting events have been highlighted such as Olympic Games and other similar events and a brief description on Indian premier league (IPL)and Pro Kabaddi League (PKL) and their growth scenario.

Sport Management Education In An Era Of Global Neoliberalism And Corporate Influence On Higher Education.

Barnes, John & Gannon, William. (2022). Sport management education in an era of global neoliberalism and corporate influence on higher education. Policy Futures in Education. 21. 147821032110676. 10.1177/14782103211067653. Decreasing government funding and increased corporate influence have combined to create transformation in higher education. Considering the shifting nature of higher education funding and the pressures that have come with this change, the purpose of this paper is threefold: First, an overview of the paradigm of higher education is provided, including a brief examination of how higher education in the US has evolved from the mid-20 the

Century to its current form. The point of this is to provide an explanation of how the corporate/entrepreneurial university has emerged. Within this discussion, ethical

consequences of corporate funding are presented. Second, some approaches for exploiting external partnerships are discussed. Finally, innovative strategies for maintaining academic and professional ethics are proposed.

The Concept Of Sports Management As A Factor Of Effective Sports Activities. Humanities Studies. 12. 60-70. 10.26661/Hst-2022-12-89-07.

The article considers sports management as a new sport scientific direction, which is in demand in the sports world today. Sports management in its essence is the sports management, the formation of a coordinated sports team; this is the management of sport organizations at the micro- and macrolevel, aimed at promoting the sport development. The purpose of the research is the conceptualization of sports management as an effective factor, which is based on the activity of sports organizations. Research tasks: 1) to analyze the main functions, values, components and sports management characteristics; 2) find out sport as an educational phenomenon and a condition for the formation of a healthy and active personality; 3) identify the educational sports management goals and directions as a sport education type. Research methodology. The article uses phenomenological, axiological, systemic, structural- functional, institutional methods to reveal the essence, characteristics, functions, and role of sports management aimed at the formation of a healthy and active personality. In the sports management analysis, general philosophical methods were used - analysis, synthesis, generalization, logical and historical, cross-cultural analysis. Research result. Sport as an educational phenomenon and a condition for the formation of a healthy and active



personality, which is based on coaching, which contains the sports management essence, is clarified. Sports management has become a popular choice for students who love sports and want to be involved in sports business, which includes sports marketing, communication, finance, economics, history, development or law, which are responsible for sports development. All this creates an infrastructure for the sports industry that must be managed efficiently and effectively to survive and promote the sports development at various levels. As an academic discipline, sports management continues to be an important part of sports and the sport industry as it grows in prominence and complexity. Achieving success requires professional and ethical management skills. They can be divided into groups of skills: conceptually related; technically related; and human- related In order for a sports atmosphere to flourish, it needs the support of the government, which provides the basic sports structure and is one of the main actor sin the sports governance.

3-PROBLEM STATEMENT

Athletes, coaches, and sports team's face unique challenges in managing their time effectively. Students balancing intense training sessions, recovery periods, strategy planning, competitions, and personal commitments is crucial for optimal performance and overall well-being. Traditional scheduling methods often lack the necessary structure and flexibility to address these diverse needs, leading to in efficient time use, increase risk of injury, and efficient use of resources.

Streamline Operations:

Automate the scheduling and booking of sports facilities and events to enhance operational efficiency and reduce administrative workload.

Enhance User Experience:

Develop a user-friendly interface that allows students and faculty to easily register ,book slots, and access information about sports activities.

Facilitate Communication:

Provide a platform for effective communication between members, coaches ,and administrator to ensure timely updates and notifications about events and schedules.

Track Attendance and Performance:

Implement attendance tracking and performance monitoring features to support athletes and coaches in evaluating progress and participation levels.

4-REQUIREMENT ANALYSIS

The SJBIT Sports Management System is designed to centralize the management of sports activities at SJBIT. This system provides an efficient way for students to register, book facilities, and make payments, while offering administrators a streamlined interface for event management. The goal is to enhance student engagement in sports activities while simplifying administrative tasks, aligning with the vision of SJBIT to foster an active and organized sports environment within the campus.

Hardware Requirements:

User Devices

- Desktop or laptop with a modern web browser (e.g., Chrome, Firefox, Edge).
- Internet connectivity with a minimum speed of 1 Mbps.

Server Hardware

- Quad-core processor or better.
- GB RAM or higher for smooth performance.
 Minimum 100 GB SSD for storage.

Safety Requirements:

Ensure data backup is performed weekly to prevent data loss

The provided flowchart represents the workflow of

a system designed for administrators, students, and

faculty members. The process begins with the user

selecting their role upon login, which determines the

available options. Administrators have access to

system maintenance features, including adding

facilities and notifications, managing permissions,

and viewing relevant details. Students and faculty

can register for events, browse sports facilities, and

make or cancel bookings. Each decision in the flow

leads to subsequent actions or the termination of the

process, ensuring streamlined functionality tailored to the user's role. The system concludes once all



Description: Regular backups should safeguard the system from data loss due to hardware failures, cyberattacks, or accidental deletions. Backup Frequency: Weekly full backups.

Incremental daily backups for critical data (e.g., bookings, payments).

Security Requirements

Enforce password policies and OTP for account access Description:

Enhance user authentication by combining secure password policies with OTP-based verification for critical actions.

FLOW DIAGRAM

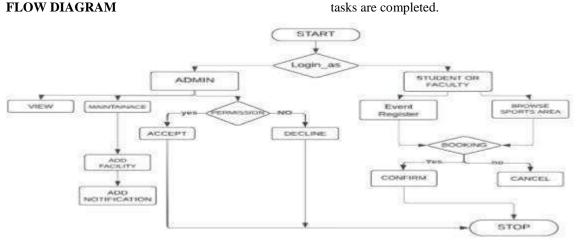


Fig: 1 Flow Diagram

5-IMPLEMENTATION

Implementation refers to the process of putting a plan, design, or system into action to achieve the desired outcome. In the context of your flowchart, It means developing the actual system or software based on the flowchart's design.

1. Design the User Interface (UI):

- Create login screens for Admin and Student/Faculty roles.
- Add options for each role, like viewing data, maintaining facilities, event registration, etc.

2. Develop the Backend Logic:

- Code the decision-making processes (e.g., permissions for Admin, booking confirmations for Students/Faculty).
- Use databases to store information about users, events, notifications, and facilities.

3. Integrate the Functionalities:

- Link actions like adding notifications, registering events, and browsing sports areas to their respective workflows.
- Ensure data consistency across the system.

4. Test the System:

Verify that all paths in the flowchart (e.g., permission approvals, bookings) work as intended.



• Test edge cases, such as invalid inputs or conflicts in booking.

5. Deploy the System:

• Make the application available for users to access, either on a website, mobile app, or standalone software.

6. Maintain and Update:

 Regularly check for bugs, add new features, and update functionalities as needed.

6- TESTING

Testing is a critical phase in the Waterfall Model to ensure the system functions as intended. After the implementation phase, the developed system is rigorously tested to identify and fix any errors, bugs, or inconsistencies.

1. Integration Testing

• Verifies that different modules interact correctly. For example:

7- RESULTS

Implementing a time blocking system for sports can significantly enhance performance and productivity by structuring training and recovery. This method allocates specific time blocks for various activities, ensuring athletes dedicate time to skill development, conditioning, mental preparation, and rest. By focusing on one activity at a time, athletes can train more effectively and maintain a balanced routine. Scheduling rest periods helps prevent burnout, while a clear plan reduces stress and aids in goal tracking. To succeed, athletes all prioritize activities, keep time blocks realistic, allow flexibility, and regularly review their schedule. Overall, time blocking leads to disciplined, focused, and effective training, optimizing performance and achieving a well-rounded approach to sports.

Here are some potential project outcomes for implementing effective time management strategies in sports teams and athletes:

- Check if booking functionality works seamlessly with the confirmation process.
- Ensure that Admin notifications are correctly displayed to Students/Faculty.

2. System Testing

- Tests the complete system as per the flowchart:
- Validate that all paths (e.g., Admin permissions, event registration, and booking confirmation) function as expected.

Test the system with real-world scenarios.

3.Performance Testing

- Measures the system's responsiveness, speed, and scalability under various conditions:
- Handle multiple logins and simultaneous bookings.
- Test how the system handles large event registrations.

1. Improved Performance

- Enhanced Training Efficiency: More structured schedules lead to focused training sessions, improving skill development and overall performance.
- **Better Competition Results**: Athletes may achieve higher placements or personal bests due to optimized preparation and recovery.

2. Increased Well-Being

- Enhanced Mental Health: Reduced stress and improved work-life balance can lead to better mental health outcomes for athletes and coaches.
- Higher Satisfaction Levels: Athletes and coaches report greater satisfaction with their training experience and personal lives.

3. Stronger Team Cohesion



- Improved Communication: Regular check-ins and clear scheduling foster better relationships among team members and staff.
- Enhanced Team Dynamics: A cohesive environment allows for collaboration and support, boosting team morale and motivation.

4. Better Academic and Personal Balance

- Academic Success: Student-athletes may achieve better academic performance as a result of effective time management strategies.
- **Personal Development:** Athletes have more time for social activities and personal interests, leading to well-rounded development.

5. Optimized Resource Use

- Effective Facility Utilization: Better scheduling of training sessions can lead to more efficient use of facilities and resources.
- Maximized Support Services: Coordinated use of coaching, medical, and academic support can enhance the overall athlete experience.

6. Sustainable Training Practices

• Long-Term Athlete Development: Establishing healthy training habits can lead to sustained performance and longevity in sports.

 Adaptive Training Models: Flexible plans can be adjusted based on feedback and performance, fostering continuous improvement.

7. Enhanced Skill Acquisition

- Targeted Skill Development: Time management allows for more focused sessions on specific skills, leading to faster improvement.
- Increased Learning Opportunities: Athletes can dedicate time to studying game strategies or participating in workshops.

8. Effective Goal Setting

- Clear Short- and Long-Term Goals: Athletes and coaches can create well- defined goals that are consistently monitored and adjusted as needed.
- **Regular Progress Tracking:** Implementing systematic reviews of progress towards goals fosters accountability and motivation.

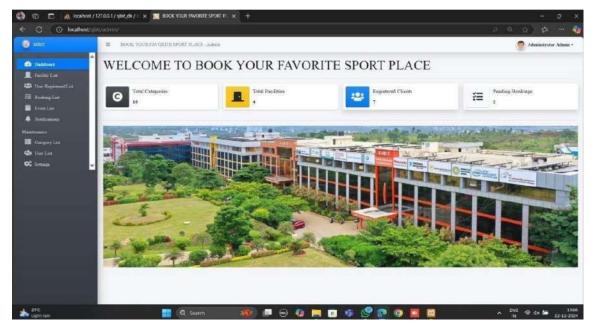
By achieving these outcomes, teams can create an environment that not only enhances athletic performance but also promotes overall well-being and development.

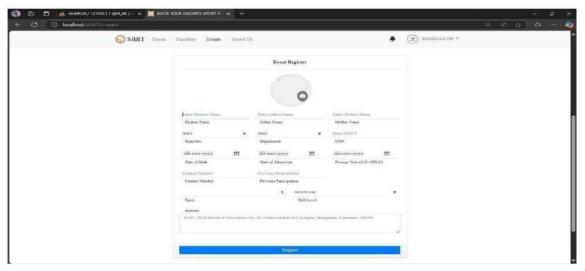


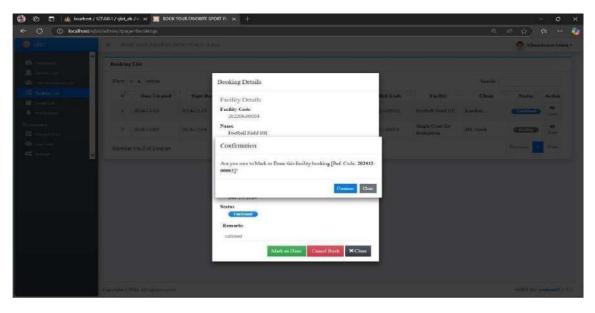
WELCOME TO SJBIT SPORTS

SBI learner of Fechanics; SBITT, Kenger, Bangaleer over of the leading Engineering & Management materials in India, effects the two coponates interns of vocal classes relatively intermediate physication, and the occupient inflamentational mensions. We traver that the productive walk out rich Engineering Languing, Tenavoral, Continuous Learning and Environium. We strict to provide encollect technical Insverledge and marginal dolfs, which is the need of the hore SBIT and the strict of the

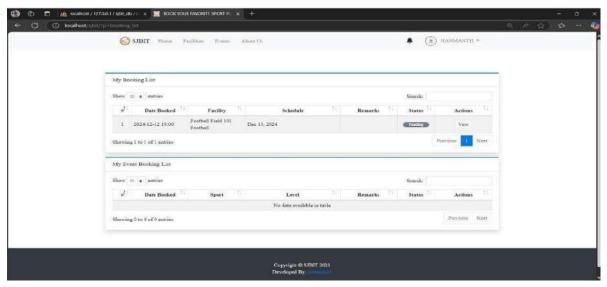












8-CONCLUSION

The implementation of an Sports Management System at SJBIT offers a significant advancement in managing the college's sports activities. It streamlines various processes such as event scheduling, player registrations, team management, and communication between athletes, coaches, and administrators. The system ensures smooth coordination of sporting events and allows real-time updates on match results, training schedules, and other essential information.

By digitizing and automating these tasks, the system minimizes human errors, saves valuable time, and reduces administrative workload. It also promotes transparency and easy access to records for both students and staff, making the overall sports experience more efficient and organized.

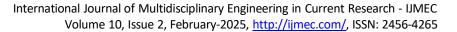
For SJBIT, this system can foster a greater sense of community among students, improve participation in sports activities, and provide detailed performance tracking, which can help in improving future sports programs. Ultimately, the adoption of such a system supports the institution's goal of creating an enhanced environment for student-athletes, encouraging a balanced focus on academics and physical development.

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