

Sports Safari: A Feature-for Player

Manish Kumar Jha¹, Vibhanshu Kumar Shubham², ³Manjeet Sharan, ⁴Abutalaha

Computer Science & Engineering, Global Institute of Technology, Jaipur

ABSTRACT

Sports Safari aims to develop a real-time ground booking platform that facilitates the seamless reservation of sports grounds for various indoor and outdoor games. The platform addresses the need for a convenient and efficient way to discover, book, and manage ground reservations, catering to both individual users and organized groups. By offering a user-friendly interface with advanced search and filtering capabilities, real-time availability updates, secure online payment integration, and features like user reviews and ratings, the platform seeks to enhance the overall booking experience. Furthermore, the project explores the integration of value-added features such as loyalty programs, promotional offers, and direct communication channels between users and ground owners to create a competitive edge in the market. The development process emphasizes scalability, security, and responsive design to ensure a robust and accessible platform across multiple devices. This research investigates the optimal combination of technologies and functionalities to create a comprehensive and user-centric ground booking solution that promotes increased participation in sports and recreational activities.

Keywords: Real-time ground booking, Affordable, user-friendly, scalable.

I. INTRODUCTION

The modern world witnesses an increasing emphasis on health and wellness, with participation in sports and recreational activities recognized as a crucial component of a balanced lifestyle. The availability and accessibility of suitable sporting venues play a pivotal role in fostering this participation. However, the process of finding and booking sports grounds, especially in densely populated urban areas, often proves to be a cumbersome and time-consuming endeavor. Traditional methods, such as phone calls, emails, or in-person visits, are inefficient and lack the transparency necessary for informed decision-making. This research addresses this challenge by proposing the development of a real-time ground booking platform that streamlines the entire reservation process, making it convenient, efficient, and accessible to a wider audience.

The existing landscape of ground booking solutions often suffers from limitations such as outdated interfaces, lack of real-time availability updates, limited search and filtering options, and cumbersome payment processes. Many platforms cater primarily to specific sports or geographical locations, leaving users searching for a comprehensive solution that caters to diverse needs. Furthermore, the absence of features like user reviews and ratings makes it difficult for

individuals to assess the quality and suitability of different grounds. This research aims to overcome these limitations by designing and implementing a platform that offers a user-friendly interface, real-time availability updates, advanced search and filtering capabilities, secure online payment integration, and a suite of value-added features that enhance the overall booking experience.

Beyond the core functionalities, this research explores the integration of several value-added features to create a competitive user satisfaction.

Objective of the Sports Safari

Indoor and outdoor games. This platform will serve as a centralized hub where users can easily search for grounds based on location, game type, date, time, capacity, and other relevant criteria. The real-time availability calendar will provide up-to-the-minute information, eliminating the need for tedious back-and-forth communication. The secure online payment gateway will facilitate smooth and hassle-free transactions, while automated booking confirmations and reminders will ensure a seamless experience.

Key Features of Sports Safari

1. Real-time Availability and Booking:

Granular Availability: The system will provide real-time availability down to specific time slots (e.g., 30-minute or 1-hour increments). This

allows for flexible booking durations and caters to various game formats.

Dynamic Updates: Availability will be updated instantly as bookings are made or cancelled, preventing double-bookings and ensuring accuracy. This requires robust database management and synchronization.

Interactive Calendar/Schedule: A user-friendly calendar interface will visually display available and booked slots, making it easy for users to select their desired time. Integration with user calendars (Google Calendar, Outlook) could be a valuable addition.

Booking Confirmation and Reminders: Automated email/SMS confirmations will be sent upon successful booking. Reminder notifications before the scheduled booking time will reduce no-show. **Cancellation/Rescheduling:** Clear cancellation and rescheduling policies will be implemented, with options for users to manage their bookings within specified timeframes. Refund processing (if applicable) will be integrated. **Advanced Search and Filtering:**

The core objective of this project is to create a seamless and efficient online platform that connects individuals and groups with available grounds for a variety of

Location-based Search: Integration with mapping services (Google Maps, Map box) will allow users to search grounds

Game Type Filtering: Users can filter grounds based on the sports they want to play (cricket, football, badminton, tennis, etc.). This requires a comprehensive database of game types and their compatibility with different grounds.

Date and Time Filtering: Users can specify their desired date and time range for booking. The system will display only available grounds within those criteria.

Capacity Filtering: Users can filter by the number of players the ground can accommodate. This is essential for team sports or group bookings.

Amenities Filtering: Filter by available amenities such as lighting, changing rooms, parking, restrooms, surface type (grass, turf, synthetic), indoor/outdoor options, equipment availability (nets, balls, etc.), and accessibility features.

Price Filtering: Filter grounds based on their hourly or per-booking rates. Price range sliders or input fields can be used.

User Reviews and Ratings Filtering: Filter by average user ratings to find well-regarded grounds.

Secure Online Payment Integration:

Multiple Payment Options: Integration with popular payment gateways (Stripe, PayPal, Razor pay, UPI) will provide users with a variety of payment methods (credit/debit cards, net banking, mobile wallets).

Secure Transactions: PCI DSS compliance will be essential to ensure secure handling of sensitive payment information. Tokenization and encryption techniques will be used.

Automated Receipts: Digital receipts will be generated and sent to users upon successful payment.

User Reviews and Ratings:

Verified Reviews: Mechanisms to ensure that reviews are submitted by actual users who have booked and used the grounds.

Rating System: A star-based rating system or similar will allow users to rate grounds on various aspects (quality, cleanliness, facilities, service).

Review Moderation: A system for moderating reviews to prevent spam or inappropriate content.

Ground Management Features (For Ground Owners):

Dedicated Dashboard: Ground owners will have a separate login and dashboard to manage their ground listings.

Availability Management: Owners can set their ground's availability, block specific dates or times, and manage recurring bookings.

Pricing Management: Owners can set their pricing for different time slots or days of the week. They can also offer discounts or promotions.

Booking Management: View upcoming bookings, manage cancellations, and communicate with users. **Reporting and Analytics:** Owners can access reports on their booking history, revenue, and other key metrics.

Mobile Applications (iOS and Android):

Native Apps: Dedicated mobile apps will provide a more optimized user experience on mobile devices.

Push Notifications: Real-time push notifications for booking confirmations, reminders, and updates.

Offline Access: Limited offline access to booking information and saved grounds.

Scalability and Performance:

Cloud Hosting: Utilizing cloud hosting infrastructure (AWS,) will allow the platform to scale dynamically based on demand.

Database Optimization: Efficient database design and indexing will ensure fast query performance.

Load Balancing: Distribute traffic across multiple servers to handle a large number of concurrent users.

Security:

Data Encryption: Encrypt sensitive user data both in transit and at rest.

Access Control: Implement role-based access control to restrict access to sensitive information.

Regular Security Audits: Conduct regular security audits and penetration testing to identify and address vulnerabilities.

Trainer Profiles and Availability

Detailed Trainer Profiles: Each trainer will have a profile showcasing their qualifications, experience, specializations (e.g., specific sports, age groups), certifications, and reviews/ratings from users. Include photos and videos for a more engaging presentation.

Trainer Availability: Trainers can set their availability (days, times) for sessions, like how grounds manage their schedules. A clear calendar interface for trainers is essential.

Trainer Search and Filtering: Users can search for trainers based on sport, specialization, experience level, availability, location, price, and user reviews. Filtering by "nearby trainers" would be beneficial.

Trainer Booking: Users can book training sessions for themselves or their groups, selecting the trainer, date, time, duration, and type of session (individual, group).

Technology Used

Okay, let's detail the chosen technologies and explain why they're suitable for your real-time ground booking platform:

I. Frontend (User Interface):

HTML (Hypertext Markup Language): The foundation of any web page. HTML provides the structure and content of your web pages. You'll use

HTML to create the layout, headings, paragraphs, forms, and other elements of your user interface.

CSS (Cascading Style Sheets): CSS is used for styling and presentation. It controls the visual appearance of your web pages, including fonts, colors, layout, and responsiveness (how the page adapts to different screen sizes). Using a CSS framework like Bootstrap or Tailwind CSS can speed up development and ensure consistency.

JavaScript (JS): JavaScript adds interactivity and dynamic behavior to your web pages. You'll use it to handle user interactions (clicks, form submissions), make AJAX requests to the backend, update content dynamically, and create a rich user experience. For a complex application, using a JavaScript framework (React, Angular, or Vue.js) is highly recommended. You can create optimized workflows that automatically eliminate double entries and errors, for example, or prevent the need for manual data entry and increase overall process speed.

Sales force automation also handles email, phone, social media, and customer portal communications. We found this all worked pretty smoothly. The sales pipeline visualization is also quite intuitive.

I. Backend (Server-Side Logic and API):

Node.js: A JavaScript runtime environment that allows you to run JavaScript on the server. Node.js is known for its non-blocking I/O model, making it highly efficient for real-time applications. It's a good choice if your team is already proficient in JavaScript.

Python (Django): Python is a versatile and widely used language. Django is a high-level Python web framework that provides a lot of built-in features, including routing, templating, database management, and authentication. It's a good choice if your project requires complex logic, data processing, or if your team prefers Python.

II. Database:

MySQL: A popular and widely used relational database management system (RDBMS). MySQL is a good choice for structured data like user information, ground details, bookings, and availability schedules. Relational databases are well-suited for ensuring data integrity and consistency.

III. Payment Gateway Integration:

PayPal: A well-established and widely used online payment platform. PayPal provides APIs and tools for integrating secure payment processing into your application.

UPI (Unified Payments Interface): A real-time payment system in India that allows instant money transfers between bank accounts. Integrating UPI is essential for catering to the Indian market. You'll likely use a library or service that simplifies UPI integration.

Mapping Services:

Google Maps: A powerful mapping platform that provides APIs and tools for embedding maps in your application. You'll use Google Maps to display the location of grounds, enable location-based search, and potentially calculate distances.

IV. Cloud Hosting:

AWS (Amazon Web Services): A comprehensive cloud computing platform that offers a wide range of services, including compute instances (virtual servers), storage, databases, and more. AWS provides the infrastructure to host your application and scale it as needed.

Architecture and Working Process of the Sports Safari Platform

System Architecture

The architecture of the **Sports Safari** ground booking platform follows a multi-tiered approach, ensuring scalability, security, and efficiency. The system consists of the following components:

1. User Interface (Frontend)

- o Web and mobile applications with a user-friendly interface.

- o Features include searching for sports

grounds, filtering options, viewing availability, making reservations, and processing payments.

2. Application Layer (Backend & API Services)

- o Handles business logic, user authentication, booking management, and real-time availability updates.

- o Provides APIs for frontend communication and integration with third-party services.

3. Database Layer

- o Stores user details, booking records, payment transactions, reviews, and sports ground details.

- o Uses relational (MySQL/PostgreSQL) and NoSQL (MongoDB) databases for structured and unstructured data.

4. Third-Party Integrations

- o **Payment Gateway:** Secure online transactions through services like Stripe, PayPal, or Razor pay.

- **Google Maps API:** Enables location-based ground search and navigation assistance.

- **Messaging & Notifications:** SMS, push notifications, and emails for booking confirmations and reminders.

- **Cloud Infrastructure & Security**

- Hosted on cloud platforms like AWS, Google Cloud, or Azure for scalability.

- Uses security measures such as encryption, OAuth authentication, and role-based access control (RBAC).

Working Process of the Platform

Step 1: User Registration & Authentication

- New users sign up using email, phone number, or social login.

- Secure authentication via OTP, email verification, or OAuth.

Step 2: Searching & Filtering Sports Grounds

- Users browse available sports facilities based on location, game type, pricing, and amenities.

- Real-time availability is displayed for quick decision-making.

Step 3: Booking & Payment Processing

- Users select a preferred date and time slot, then proceed to booking.

- Secure online payment is processed, and a confirmation receipt is generated.

Step 4: Real-Time Booking Updates & Notifications

- The system updates ground availability dynamically.

- Users receive booking confirmations, reminders, and notifications via SMS/email.

Step 5: Ground Owner Management

- Venue owners manage schedules, pricing, and booking requests via an admin panel.

- They can also respond to user queries and track earnings.

Step 6: User Reviews & Feedback

- After using a facility, users can rate and review their experience.

- Reviews help improve service quality and increase trust.

Step 7: Loyalty Programs & Promotions

- Users earn points for frequent bookings, which can be redeemed for discounts.

- Promotional offers and referral rewards encourage engagement.

Pricing of Sports Safari: Sports Safari have several plans for users

Individual Pass: This is the standard pay-per-use option. Users pay for each booking they make, with pricing varying based on ground, time slot, and other factors.

Student Pass: Offers discounted rates for students. Requires verification of student status (e.g., student ID upload, affiliation with educational institutions). Could be limited to certain time slots or days of the week.

Monthly Pass: Provides unlimited or a fixed number of bookings within a calendar month for a set price. Attractive for frequent users. Could have different tiers based on the number of bookings allowed or the types of grounds included.

Yearly Pass: Offers the best value for regular users. Provides unlimited or a fixed number of bookings for an entire year. Could include additional perks, like priority booking or discounts on training sessions.

Corporate Pass: Designed for companies or organizations that want to offer sports facilities to their employees. Could involve bulk discounts or customized packages. Might include features like employee booking management or team event organization.

We could track deals throughout stages and use analytics for insight into challenges and opportunities. From here, you can forecast sales and get inventory predictions based on current activities.[5]

Enhanced Features & Additional Benefits

1. Medical Assistance & First Aid Services

- **On-Demand Medical Support:** Users can request first-aid assistance or emergency medical services at the sports facility.

- **Tie-ups with Local Clinics & Ambulance Services:** Partnering with nearby hospitals or clinics for quick response in case of injuries.

- **Sports Physiotherapy & Recovery Sessions:** Paid services for players needing post-match recovery or therapy.

- **Smart Health Monitoring:** Integration with wearables (Fitbit, Apple Watch) to track heart rate, hydration, and fatigue levels.

2. Parent Lounge & Services for Accompanying Visitors

- **Comfortable Waiting Areas:** Air-conditioned lounges with Wi-Fi, charging stations, and refreshments for parents or guardians.

- **Cafeteria & Refreshment Stalls:** A small café offering snacks and beverages, generating additional revenue.

- **Work & Relaxation Spaces:** Paid workstations with internet, allowing parents to work while waiting.

- **Kids' Play Area:** If parents come with younger children, a designated play area can keep them engaged safely.

3. AI-Powered Matchmaking & Team Formation

- **Automated Player Matching:** AI suggests suitable players for team-based sports based on skill levels and preferences.

- **Social Sports Networking:** Connect with players nearby, create teams, and schedule matches.

4. Personalized Training & Coaching Services

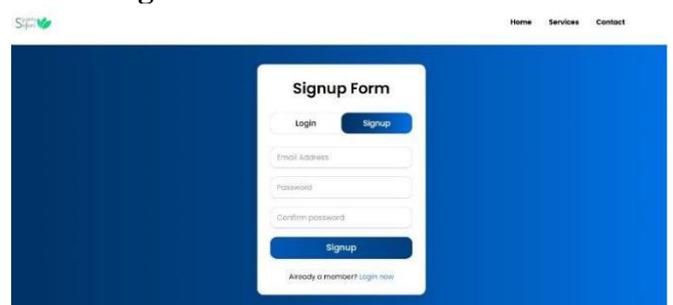
- **On-Demand Coaching:** Users can book certified Login/Sign Up page. trainers for personal or group training sessions.

- **Ground Condition Monitoring:** Sensors provide live updates on field conditions (wetness, temperature, air quality).

Some Glimpse of Sports Safari:



Home Page



- **Skill Level Assessment:** AI-based tracking of player performance and progress reports.
- **Virtual Training:** Online coaching sessions and video tutorials for skill improvement.

5. Loyalty Programs & Membership Plans

- **Membership Tiers:** Bronze, Silver, and Gold memberships with exclusive discounts and perks.
- **Referral Rewards:** Users earn credits when they refer friends to book grounds.
- **Seasonal & Festival Discounts:** Special promotions during peak sports seasons.

6. Event & Tournament Management

- **Create & Manage Events:** Users and organizers can set up local tournaments with automated registration and fee collection.
- **Live Match Streaming:** Integration with streaming services for broadcasting local tournaments.
- **Sponsorship & Advertisements:** Local businesses can promote products during events.

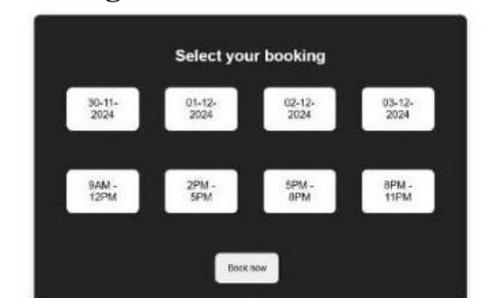
7. Smart Ground Features & IoT Integration

- **Smart Lighting & Automated Scheduling:** IoT-enabled lights that adjust based on bookings and time of day.
- **Weather-Based Adjustments:** AI can suggest rescheduling in case of bad weather.

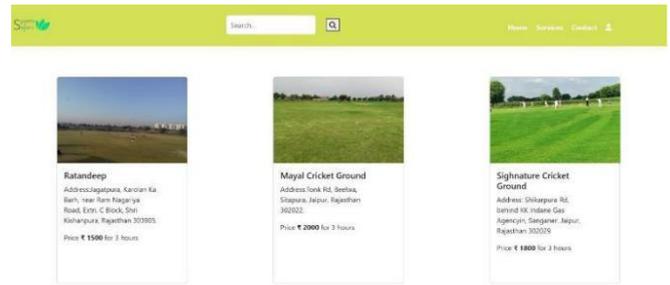
Discover games



Booking Slots



Grounds Details



PROS of Sports Safari:

Addresses a Real-World Problem: The research tackles the genuine difficulty of finding and booking sports grounds, especially in urban areas, where traditional methods are often inefficient and lack transparency.

Focus on User Convenience: The proposed platform aims to streamline the entire reservation process, making it convenient, efficient, and accessible to a wider audience. **Comprehensive Solution:** The research seeks to overcome limitations of existing solutions by offering real-time availability updates, advanced search and filtering, secure online payment, and additional value-added features.

Potential for Increased Sports Participation: By simplifying the process of finding and booking grounds, the platform has the potential to encourage more people to engage in sports and recreational activities.

Emphasis on Key Features: The research highlights important features like real-time availability updates, advanced search, secure payment, and user reviews, indicating a user-centric approach.

Potential for Scalability: The goal of creating a "seamless and efficient" platform suggests an awareness of the need for scalability to accommodate a growing user base.

Value-Added Features: The mention of features like user reviews and ratings indicates an understanding of how to make the platform more competitive and useful.

Clear Objective: The research has a well-defined objective: to create a platform that connects individuals and groups with available sports grounds in a user-friendly manner.

Modern Approach: The focus on online platforms and digital solutions reflects a modern approach to addressing the problem.

Potential Benefits for Ground Owners: While not explicitly stated in this excerpt, an efficient booking platform would also likely benefit ground owners by increasing their visibility and occupancy rates.

CONC of Sports Safari

Technical Challenges:

Real-time Updates and Synchronization:

Maintaining accurate, real-time availability across multiple users and grounds can be technically

complex. Database synchronization, caching strategies, and handling concurrent requests are critical. Failures in this area could lead to double-bookings or inaccurate information.

Scalability: Designing the platform to handle a large number of users, bookings, and concurrent requests is essential. Scaling the database, servers, and other infrastructure can be challenging and costly.

Security: Protecting user data (especially payment information) is paramount. Implementing robust security measures, preventing vulnerabilities, and complying with security standards (PCI DSS) are crucial and require ongoing effort.

Payment Gateway Integration: Integrating with multiple payment gateways (PayPal, UPI, etc.) can be technically complex, requiring careful handling of APIs, transaction processing, and error handling. Payment gateway failures can disrupt service.

Mapping Integration: Integrating with mapping services (Google Maps) requires careful handling of APIs, data limits, and potential display issues. Changes in mapping service APIs can require code updates.

AI Integration (if applicable): Integrating AI for game analysis or personalized offers can be technically demanding, requiring expertise in machine learning, data science, and potentially large datasets for training.

Mobile App Development: Developing and maintaining native mobile apps (iOS and Android) requires additional resources and expertise. Cross-platform solutions might have performance limitations.

Operational and Business Challenges:

Ground Owner Onboarding: Attracting and onboarding ground owners to the platform is essential. This can involve marketing efforts, demonstrating the platform's value, and addressing any concerns they might have.

User Adoption: Getting users to adopt the platform requires effective marketing and user-friendly design. Users might be resistant to switching from traditional booking methods.

Competition: The ground booking market might be competitive. Differentiation through unique features and excellent user experience is crucial.

Pricing Strategy: Finding the right pricing balance is important. Prices need to be competitive but also profitable. Managing different pass types and discounts can be complex.

Customer Support: Providing prompt and effective customer support is essential for resolving user issues and building trust.

Dispute Resolution: Handling disputes between users and ground owners (e.g., cancellations, refunds) requires clear policies and a fair resolution process.

Maintenance and Updates: Maintaining the platform, fixing bugs, and adding new features requires ongoing effort and resources.

Marketing and Promotion: Effectively marketing the platform to reach target users and ground owners is crucial for success.

Fraud Prevention: Implementing measures to prevent fraudulent bookings or other malicious activities is essential.

Legal and Regulatory Compliance: Ensuring compliance with relevant laws and regulations (data privacy, consumer protection) is important.

Research methodology

Lack of Availability Transparency

Problem: Users have no way to check real-time availability of sports grounds, leading to confusion and inefficiency.

Impact: Players or teams may travel to a venue only to find it already booked. Organizers may struggle to secure grounds for events or tournaments.

2. Manual & Time-Consuming Booking Process

Problem: Users must rely on phone calls, emails, or in-

person visits to book grounds. **Impact:** Inconvenience due to delayed responses from

facility owners. High chances of double bookings and mismanagement.

3. Difficulty in Comparing Grounds

Problem: Without a centralized platform, users cannot easily compare grounds based on pricing, location, and facilities.

Impact: Users end up booking less suitable or overpriced grounds. Limited visibility of available options reduces participation in sports.

4. Payment and Booking Security Issues

Problem: Cash-based or manual payment methods increase risks of fraud, cancellation issues, and lack of refunds.

Impact: No secure payment gateway results in financial disputes. Users may lose money due to cancellations or no-shows without a refund policy.

5. No User Feedback or Reviews

Problem: Players cannot check past reviews or ratings before booking a ground.

Impact: Users may unknowingly book poorly maintained or overpriced grounds. Facility owners lack insights to improve services.

6. Inefficient Communication Between Users & Ground Owners

Problem: No direct and streamlined communication leads to miscommunication regarding bookings, facilities, and policies.

Impact: Last-minute changes cannot be conveyed efficiently. Users remain unaware of ground rules, extra charges, or facility limitations.

7. Revenue Loss for Ground Owners

Problem: Without an automated system, ground owners struggle to manage bookings and maximize revenue.

Impact: Underutilization of facilities due to lack of visibility. Loss of potential customers who prefer online booking convenience.

8. Limited Incentives & Engagement for Users

Problem: No loyalty programs, promotional offers, or personalized recommendations to encourage bookings.

Impact: Reduced user engagement and retention. Fewer people participating in sports due to lack of motivation.

Future Scope and Concerns

Future Scope

1. AI-Powered Booking Recommendations

o Implementing AI and machine learning to analyze user preferences and booking patterns can enhance the recommendation system, suggesting the most suitable sports grounds based on availability, past reservations, and user interests.

2. Augmented Reality (AR) and Virtual Tours

o Integrating AR and 360-degree virtual tours of sports venues can help users make informed decisions before booking, improving the overall user experience.

3. Blockchain for Secure Transactions

o Utilizing blockchain technology can ensure transparent, secure, and tamper-proof booking transactions, reducing the risk of fraud and enhancing user trust.

4. Dynamic Pricing Model

o Introducing AI-based dynamic pricing can help optimize ground rental costs based on demand, peak hours, and seasonal variations, benefiting both users and ground owners.

5. Integration with Wearable Devices and Fitness Apps

o Connecting the platform with smartwatches and fitness tracking apps can provide users with data on their performance, calories burned, and activity duration, further encouraging sports participation.

6. Enhanced Community Engagement Features

o Adding forums, chat groups, and event organization tools can help users connect, form teams, and participate in local tournaments, fostering a strong sports community.

7. Sustainability Initiatives

o Incorporating eco-friendly booking options, such as green-certified sports venues or discounts for eco-conscious practices, can align the platform with global sustainability goals.

Concerns

1. Scalability and Server Load Management

o As user demand increases, maintaining a seamless and lag-free experience requires efficient server management, caching mechanisms, and cloud-based solutions to handle high traffic.

2. Data Privacy and Security

o Protecting user data, including payment details, personal information, and booking history, is crucial to prevent breaches and unauthorized access. Compliance with data protection regulations (e.g., GDPR, CCPA) is essential.

3. User Trust and Review Authenticity

o Ensuring that user reviews and ratings are genuine and free from manipulation is vital to maintain credibility and reliability in the booking system.

4. Dispute Resolution Between Users and Ground Owners

o Implementing a fair and efficient dispute resolution mechanism is necessary to handle booking cancellations, refund requests, and issues related to ground conditions.

5. Internet Connectivity and Accessibility

o Ensuring platform accessibility in regions with limited internet connectivity or slower network speeds is crucial for maximizing user reach and inclusivity.

6. Legal and Compliance Issues

o Adhering to local regulations regarding sports facility rentals, liability clauses, and insurance policies is necessary to avoid legal complications.

7. Market Competition and Adoption

o Competing with existing sports booking platforms and encouraging users to shift from traditional booking methods to an online system requires strategic marketing, incentives, and continuous feature enhancements.

Conclusion

The Sports Safari platform is a ground-breaking solution that bridges the gap between sports enthusiasts and venue owners, making the process of discovering, booking, and managing sports facilities more efficient and enjoyable. Through its intelligent booking system, value-added services, community-driven engagement, and future-proof technological advancements, the platform has the potential to transform the way people participate in sports and fitness activities. While there are certain challenges and competitive market pressures, continuous innovation, scalability improvements, and strategic partnerships will ensure the platform's long-term success. As digital transformation continues to reshape the sports and fitness industry, Sports Safari stands as a pioneering

force in promoting a more active, connected, and health-conscious society.

By integrating advanced AI, IoT, blockchain, and AR/VR capabilities, the future iterations of Sports Safari will not only facilitate seamless bookings but also redefine how individuals and communities engage with sports, fitness, and wellness activities.

Thus, Sports Safari is not just a booking platform—it is a movement towards a healthier and more connected world through the power of technology-driven sports engagement.

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