**Web Application Proposal**

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# Name Application

SportBooker

# Description

# Background

In today's modern era, engaging in sports activities is becoming increasingly important for many individuals to maintain their health and well-being. However, finding and booking suitable sports facilities can often be a challenge. This is due to limited information, time constraints, and the difficulty of finding places that match desired schedules and locations. This problem is significant as it can hinder widespread access to regular exercise for the general public and act as a barrier for individuals seeking to maintain a healthy and active lifestyle.

# Purpose

Our application aims to provide an efficient and user-friendly solution for users looking to quickly and seamlessly book sports facilities. We hope to offer a platform that enables users to discover, select, and reserve sports facilities according to their personal preferences. Our primary goal is to facilitate access for people from various backgrounds to engage in regular physical activities, thereby enhancing their health and well-being.

# Overview of Functionality

1. Facility Search

Users can search for sports facilities based on location, type of sport, operating hours, and available amenities.

1. Easy Booking

Users can easily book fields or sports facilities they desire through the application with just a few clicks.

1. Schedule Management

Users can view facility availability schedules and make bookings according to their desired time slots.

1. Confirmation and Payment

After booking a facility, users receive confirmation of their reservation via the application and can make online payments.

1. Reviews and Ratings

Users can provide reviews and ratings for the facilities they use, helping other users in choosing suitable places for their needs.

# Detailed Functionality

* **Step-by-Step Process**

1. User accesses the sports facility booking website
2. User selects the type of sports facility to book
3. User selects booking date and time
4. User enters booking data (name, phone, email, etc)
5. User makes online payment
6. User receives booking confirmation e-ticket
7. User comes to the location and shows e-ticket
8. User utilizes the sports facility as booked

* **Features**

1. Search sports facilities by type of sports
2. Real-time online sports facility booking
3. Online payment for bookings using e-wallet or credit card
4. Booking notification via email and SMS
5. Generated e-ticket booking containing booking details
6. Integration with sports facility calendar to show availability
7. Admin dashboard for facility, booking and payment management
8. Booking transaction and revenue reports

* **User Interfaces and Experience**

The application utilizes an intuitive and easy-to-use UI/UX design. It has sports facility search and filtering, simple booking form, integrated payment, and auto-generated e-ticket upon booking. This provides a seamless sports facility booking experience.

* **Technologies Used**
* Programming Language: HTML, CSS, JavaScript
* Framework: Vue.js
* Database: MySQL

# Conclusion

Through this application, users can find various types of sports fields, check schedule availability, make a booking, and directly transact payment online.

Once the booking process is complete, users will receive an e-ticket that serves as an entry ticket to the sports facility. On the sports management side, this application also has an admin system for monitoring bookings and managing customer data.

With this online sports facility booking platform, we hope to provide easy access to sports facilities for the community while improving service quality for the recreational sports service industry. Although there are various challenges in its implementation, we are optimistic that innovation in utilizing digital technology in this sector can have a positive impact on the progress of the country's sports ecosystem in the future.

**Database**

1. **customers**
   * customer\_id
   * name
   * username
   * password
   * email
   * phone\_number
2. **booking**
   * booking\_id
   * customer\_id
   * facility\_id
   * schedule\_id
   * booking\_date
   * booking\_time
   * status
3. **facility**
   * facility\_id
   * name
   * operation\_hours
   * facility\_type
4. **transaction**
   * transaction\_id
   * booking\_id
   * date
   * total
5. **schedule**
   * schedule\_id
   * facility\_id
   * date
   * duration