



Design Project II Report, CSE 3200 ,Section 3

Turf Management System

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Chapter 1

Introduction

1.1 Background

In urban areas, finding available sports turfs for booking has long been a challenge due to manual systems, phone calls, and miscommunication. Turf owners and players often face problems such as double bookings, lack of visibility of available slots, and poor record management. These issues are compounded by the absence of a centralized platform that provides real-time availability, booking options, and a transparent system for managing payments and cancellations.

In recent years, the advent of digital platforms and web technologies has paved the way for more efficient management systems across various sectors. Similar to the transformation seen in other industries, the sports industry can benefit from a web-based turf booking system that addresses the common pain points associated with traditional booking methods.

A web-based Turf Booking Management System can provide a centralized, user-friendly platform where players, teams, and turf owners can manage bookings with greater ease. The system can offer real-time visibility of turf availability, allow instant booking and cancellations, and provide a secure way for users to manage payments and track booking status. By automating many aspects of the booking process, the system reduces the risk of errors, improves efficiency, and enhances the user experience for all stakeholders.

This shift to a digital platform aligns with the growing demand for online services and aims to modernize how sports facilities are managed, ensuring a more reliable and seamless experience for both customers and owners.

1.2 Problem Statement

In urban areas, players and teams often face challenges in booking sports turfs due to outdated systems that rely on phone calls and manual processes. Turf owners and players struggle with issues such as double bookings, unclear availability, and poor record-keeping. Without a centralised system, it is difficult for users to view real-time turf availability, make instant bookings, or cancel their reservations easily.

Currently, turf owners and managers have to handle bookings manually, which can lead to errors and inefficiencies. Additionally, customers often have no way to track their booking status or confirm payments easily, creating confusion and frustration.

This project aims to solve these problems by developing a web-based Turf Booking Management System that allows customers to book turfs online, view availability, track bookings, and manage payments. The system will also provide turf owners and managers with an easy-to-use platform for managing bookings, payments, and customer interactions, ensuring a smoother and more reliable experience for everyone involved.

1.3 Project Objectives

The main objectives of the Turf Booking Management System are:

- To create a simple and effective online platform for booking sports turfs.
- To allow users (customers) to easily view available time slots for booking turfs and make instant reservations.
- To provide a secure login system for different users (customers, managers, and administrators) to access the platform based on their roles.
- To enable turf owners and managers to approve or reject booking requests, manage bookings, and keep track of payments.
- To give customers the ability to cancel or modify their bookings easily and view their booking history.
- To integrate a payment gateway for secure and seamless payment processing.
- To generate reports for administrators and managers to track overall system performance, including booking trends and payments.

This system will help automate and streamline the turf booking process, making it more efficient and user-friendly for everyone involved.

1.4 Scope of the Project

The scope of this project covers the design, development, and implementation of a web-based **Turf Booking Management System**. The key features included within the scope are:

- **User Registration and Login:** Customers, managers, and administrators can register and securely log in to the system according to their roles.
- **Turf Slot Availability:** Customers can view the real-time availability of turfs and book them instantly.
- **Booking Management:** Managers can approve or reject booking requests and update the status of bookings (e.g., pending, completed).

- **Payment Integration:** The system will allow customers to make payments securely through an integrated payment gateway.
- **Booking History:** Customers can view their booking history, including past and upcoming bookings.
- **Admin Control:** Administrators can manage users, turfs, and bookings across the system, ensuring smooth operation.
- **Notifications and Reminders:** Automated notifications will be sent to customers and managers regarding booking confirmations, cancellations, and reminders for upcoming bookings.
- **Reports:** The system will generate reports on bookings, payments, and user activity to help managers and administrators monitor the system's performance.

The project does **not** include mobile application development or integration with external third-party booking systems. Future enhancements may include mobile app support, integration with other sports platforms, and additional payment methods.

Chapter 2

Literature Review

2.1 Overview

In recent years, many industries have turned to digital solutions to address inefficiencies in traditional systems. The sports industry, particularly in urban areas, has been significantly impacted by the need for modernizing turf booking and management systems. Traditional methods often rely on manual processes, such as phone calls and physical visits, which lead to double bookings, miscommunication, and lost time.

With the advent of web technologies and digital solutions, several systems have emerged to streamline the booking process, offering customers the convenience of online reservations and providing turf owners with tools to manage their facilities effectively. These digital platforms can integrate features such as real-time availability, booking confirmations, payments, and cancellations, making the booking process more transparent and efficient.

The use of such systems is becoming increasingly important, especially in sports management, as they provide the much-needed automation, transparency, and control. This literature review will explore the current landscape of turf booking systems, highlighting key developments, technologies used, and the challenges faced by existing systems.

2.2 Existing Systems or Similar Works

Several systems have been developed to address the challenges of managing sports bookings, but each has its limitations. These can be broadly categorized into:

- **Manual/Traditional Systems:** Many small sports facilities still rely on phone calls and paper-based records to manage bookings. These systems are prone to errors like double bookings, miscommunications, and inefficient management. Additionally, customers often face difficulties in knowing turf availability in real-time.
- **Desktop-based Systems:** Some facilities use desktop applications to manage bookings. These systems are typically installed on a single computer, making them difficult to scale across multiple locations or provide remote access. They often lack features like real-time availability updates, automated reminders, or online payment integration.
- **Web-based Systems:** More modern systems are web-based, allowing for real-time booking, availability tracking, and payment processing. These systems offer features such

as customer and manager dashboards, real-time notifications, and booking history tracking. However, some of these systems still lack advanced reporting capabilities or have limitations in scalability and customization for larger facilities.

- **Mobile Applications:** Some sports facilities have developed mobile apps for booking turfs, which allow customers to check availability and make bookings on the go. However, these apps often struggle with integration and scalability, and they may not support all the features required by managers and administrators for full booking management.

Most of these existing systems either focus solely on booking management or lack integration with features like payment tracking, reporting, and user role management. The **Turf Booking Management System** proposed in this project will integrate these missing features to provide a comprehensive solution that is both efficient and scalable.

Chapter 3

System Analysis

3.1 Introduction

This chapter outlines the functional and non-functional requirements of the Turf Booking Management System. It also presents the project budget and system modeling diagrams, including the use case diagram, architectural diagram, activity diagram, entity–relationship (ER) diagram, data flow diagrams (DFDs), and the class diagram. These diagrams and requirements provide a detailed understanding of how the system will function and the necessary components to ensure smooth operation and scalability.

3.2 Functional Requirements

The main functional requirements of the **Turf Booking Management System** are as follows:

- **User Registration and Login:** Customers, managers, and administrators can securely register and log in based on their role.
- **Real-Time Turf Availability:** Customers can view available time slots for turfs and make bookings in real-time.
- **Booking Management:** Managers can review, approve, or reject booking requests, and update the booking status (e.g., pending, completed).
- **Payment Integration:** The system should integrate with a secure payment gateway to process online payments for bookings.
- **Booking History:** Customers can view their past and upcoming bookings, and track the status of their bookings.
- **Booking Cancellation:** Customers can cancel pending bookings before they are confirmed.
- **Admin Control:** Administrators can manage users, turfs, and bookings, and generate reports on system performance.
- **Notifications and Reminders:** The system should send automated notifications to customers and managers for booking confirmations, cancellations, and reminders.

3.3 Non-Functional Requirements

The following non-functional requirements are essential for the **Turf Booking Management System**:

- **Usability:** The system should have an intuitive and easy-to-use interface, making it accessible even for non-technical users.
- **Performance:** The system must respond within acceptable time limits, even with multiple users interacting simultaneously.
- **Security:** User passwords must be securely stored, and role-based access control should be implemented to protect sensitive data.
- **Reliability:** The system should be reliable with minimal downtime and regular backups to prevent data loss.
- **Scalability:** The system should be scalable to handle increasing numbers of users, turfs, and locations in the future.
- **Maintainability:** The codebase should be modular, well-documented, and easy to maintain for future updates or enhancements.
- **Availability:** The system should be available 24/7 with the ability to handle high traffic during peak booking times.

3.4 Budget Estimation

Category	Item	Unit Cost	Qty	Total (BDT)	Notes & Justification
Infrastructure	Domain Registration	TK 1,200	1 Year	TK 1,200	Annual fee for domain registration to make the platform accessible globally.
	Web Hosting (Linux)	TK 300/mo	12 Mo	TK 3,600	5GB SSD hosting + cPanel required for PHP and MySQL database support.
	SSL Certificate	TK 1,000	1 Year	TK 1,000	Encryption for secure transactions (HTTPS) and data protection.
Operations	SMS Gateway API	TK 0.35	10k	TK 3,500	For sending OTPs, booking confirmations, and reminders to 2,000 users.
	SMTP Email Service	TK 500/mo	6 Mo	TK 3,000	Paid SMTP to ensure reliable email delivery for registration and notifications.
Tools	Admin Dashboard UI	TK 2,500	1 Lic	TK 2,500	Premium Bootstrap template to save time on designing the admin dashboard.
	Documentation Print	TK 800	5 Pcs	TK 4,000	High-quality printing and binding for final project submission.
Labor	Development Team	TK 340/hr	120 Hr	TK 41,000	Development time for backend, frontend, and quality assurance (120 hours).
Reserve	Contingency Fund	--	15%	TK 10,000	Buffer for unexpected costs like server price hikes or emergency fixes.
TOTAL				TK 79,800	<i>Actual Cash Needed: ~TK 38,800</i>

3.5 Cost Breakdown (Detailed)

Based on the overall budget estimation, the project cost is divided into the following major parts:

- **Infrastructure: TK 5,800**
 - (Domain Registration: TK 1,200 + Web Hosting: TK 3,600 + SSL Certificate: TK 1,000)
- **Operations: TK 6,500**
 - (SMS Gateway API: TK 3,500 + SMTP Email Service: TK 3,000)

- **Tools & Documentation: TK 6,500**
 - (Admin Dashboard UI: TK 2,500 + Documentation Print: TK 4,000)
- **Labor (Development Team): TK 41,000**
 - (Estimated value of development time for backend, frontend, and quality assurance)
- **Reserve (Contingency): TK 10,000**
 - (Extra buffer for unexpected server costs or emergency fixes)

Grand Total: TK 79,800

Note: The actual cash expense is estimated to be around TK 38,800, as the development team's cost represents contributed effort rather than direct payment.

3.6 Activity Diagram

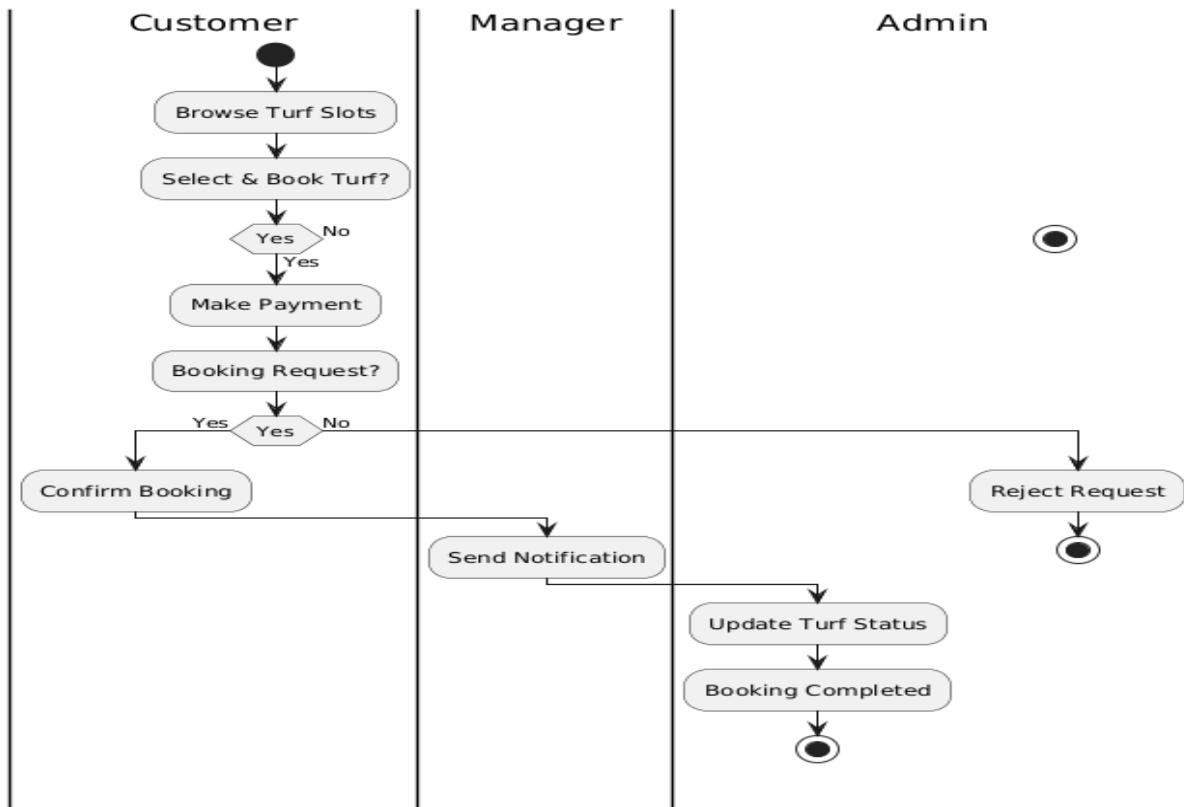


Figure 3.1: Activity diagram of the turf management system flow.

3.7 ER Diagram

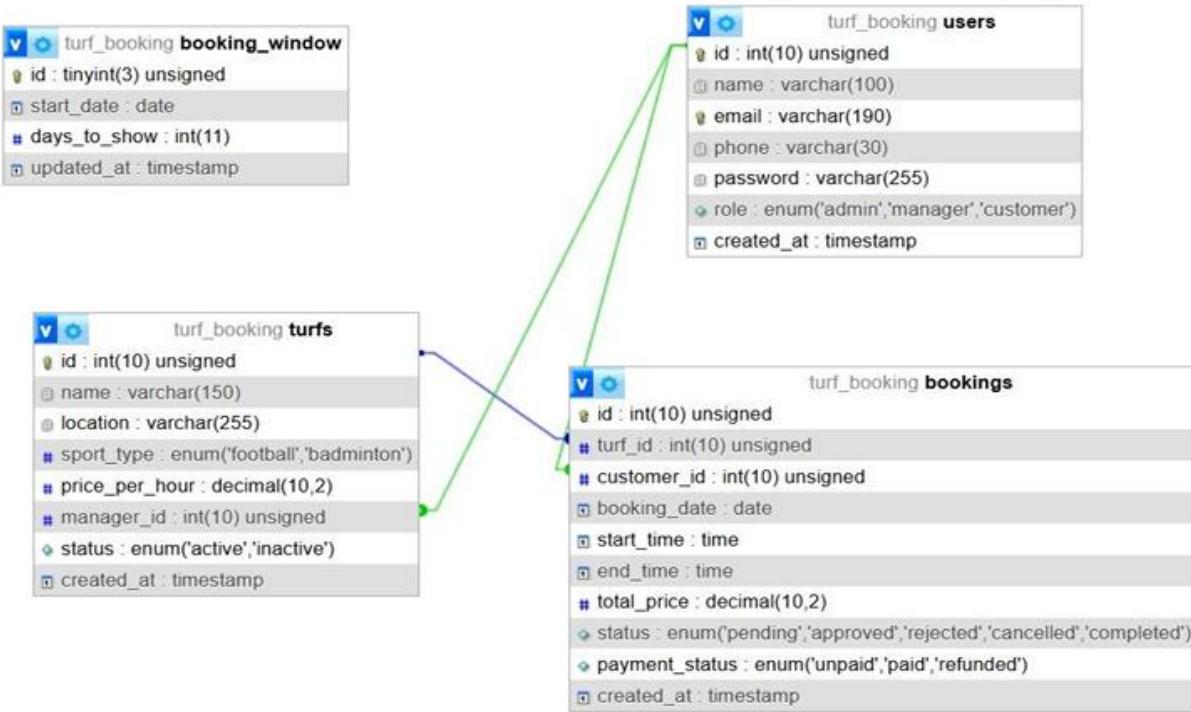


Figure 3.2: Entity–relationship diagram of the system database

3.8 Data Flow Diagrams

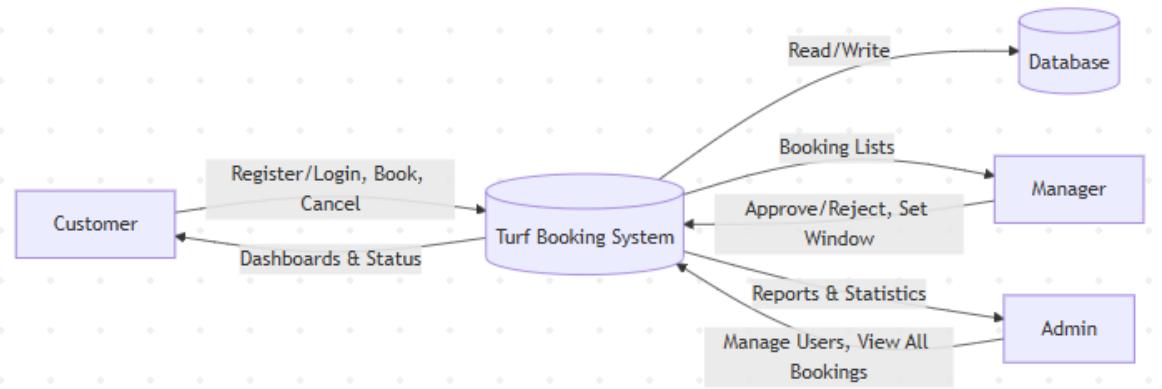


Figure 3.3: DFD diagram of the turf management System.

3.9 Class Diagram

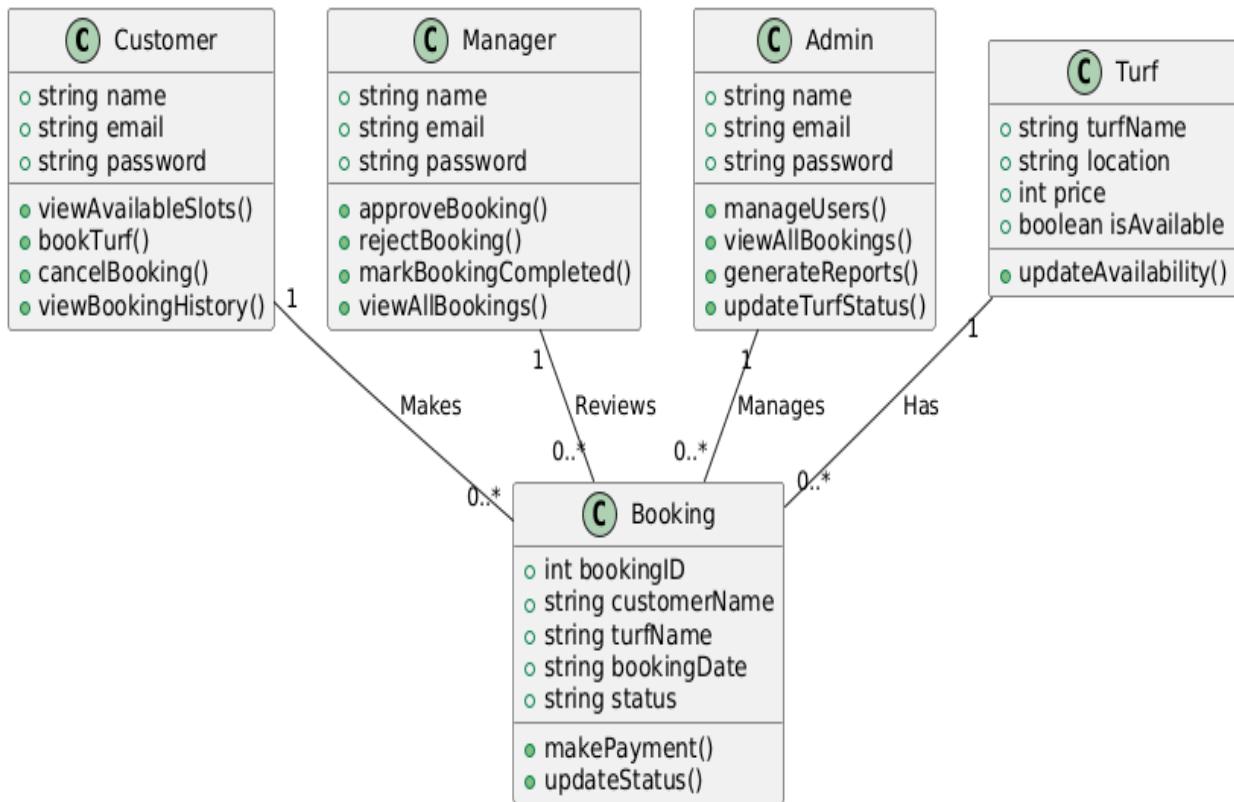


Figure 3.6: Class diagram of the turf management system System

3.10 Architectural Diagram

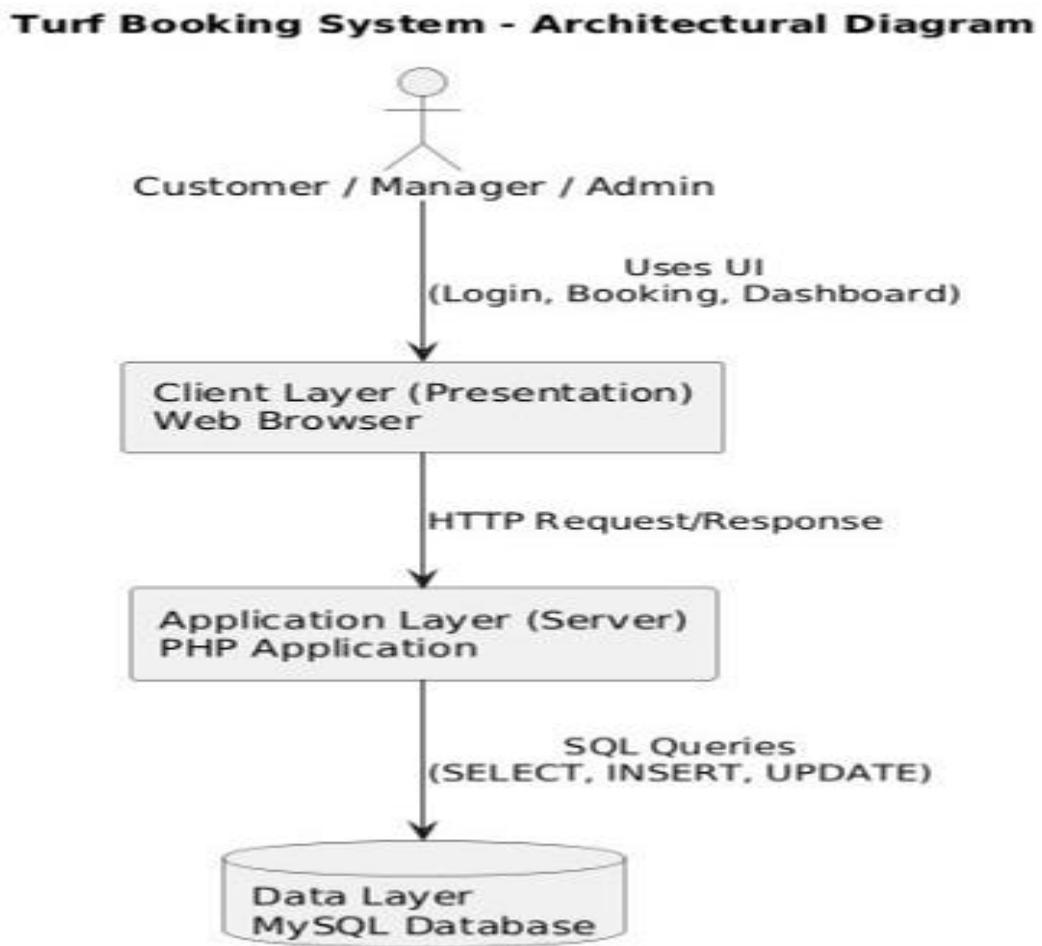


Figure 3.7: Class diagram of the turf management system.

Chapter 4

Implementation and Testing

4.1 Introduction

This chapter outlines the implementation details of the **Turf Booking Management System**, including the development tools and technologies used, an overview of the system's main modules and interfaces, and a brief summary of the testing activities carried out during development. The goal is to create a seamless online booking system for customers, while providing turf owners and managers with tools for efficient booking management and monitoring.

4.2 Development Tools and Technologies

The Turf Booking Management System has been developed using the following tools and technologies:

- **Frontend:** HTML, CSS, and Bootstrap were used to design the responsive user interfaces. This ensures the platform is user-friendly and compatible across various devices, providing an intuitive experience for customers and managers.
- **Backend:** PHP was used for server-side scripting to handle business logic, manage user authentication, and process booking requests. It ensures smooth communication between the frontend and the database.
- **Database:** MySQL was used to store all the essential data, such as user information, turf availability, booking history, and payment details. The database ensures data consistency and facilitates quick retrieval of information.
- **Web Server:** Apache, through XAMPP, was used during local development to simulate a production environment for testing and debugging.
- **Version Control:** GitHub was used for source code management, version control, and collaboration. It enables efficient code sharing and tracking of changes among the development team.

4.3 Module-wise Implementation Summary

Admin Module

The Admin Module allows administrators to manage and oversee the entire system. Key functionalities include:

- **Manage Turf and Booking Data:** Admins can add, update, or remove turfs and view all bookings across multiple turfs.
- **User Management:** Admins can assign roles (customer, manager, admin) to registered users and manage their accounts.
- **View System Statistics:** Admins can access reports and statistics to monitor bookings, revenue, and overall system performance.
- **Manage Payments:** Admins have access to payment details and can monitor payment statuses for bookings.

Manager Module

The Manager Module includes features designed for turf managers to handle bookings efficiently. Key functionalities include:

- **Approve or Reject Bookings:** Managers can review incoming booking requests and approve or reject them based on turf availability.
- **Update Booking Status:** Managers can mark bookings as "completed" or "cancelled" once the service has been provided.
- **Monitor Turf Availability:** Managers can update turf availability, ensuring real-time status is reflected for customers.
- **View Booking History:** Managers can access a history of all bookings, cancellations, and payments for each turf under their management.

Customer Module

The Customer Module allows customers to easily browse, book, and manage their turf bookings. Key functionalities include:

- **User Registration and Profile Management:** Customers can register, log in, and manage their personal details.
- **View Turf Availability:** Customers can view available turfs, including date, time slots, and location.
- **Book and Cancel Turf Slots:** Customers can select a turf, book available slots, and cancel bookings if needed.
- **Make Payments:** Customers can securely pay for bookings using the integrated payment gateway.
- **Receive Notifications and Reminders:** Customers will receive automated reminders about booking confirmations, cancellations, and upcoming appointments.

Payment Module

The Payment Module handles all payment-related processes within the system. Key functionalities include:

- **Secure Payment Gateway Integration:** The system integrates with a secure payment service to process customer payments for turf bookings.
- **Payment Confirmation:** Customers will receive confirmation of successful payments, and managers will be able to track payment statuses for each booking.
- **Refund Management:** In case of cancellations, the system will process refunds according to the cancellation policy.

4.4 Interface Implementation (Screenshots)

Main Dashboard

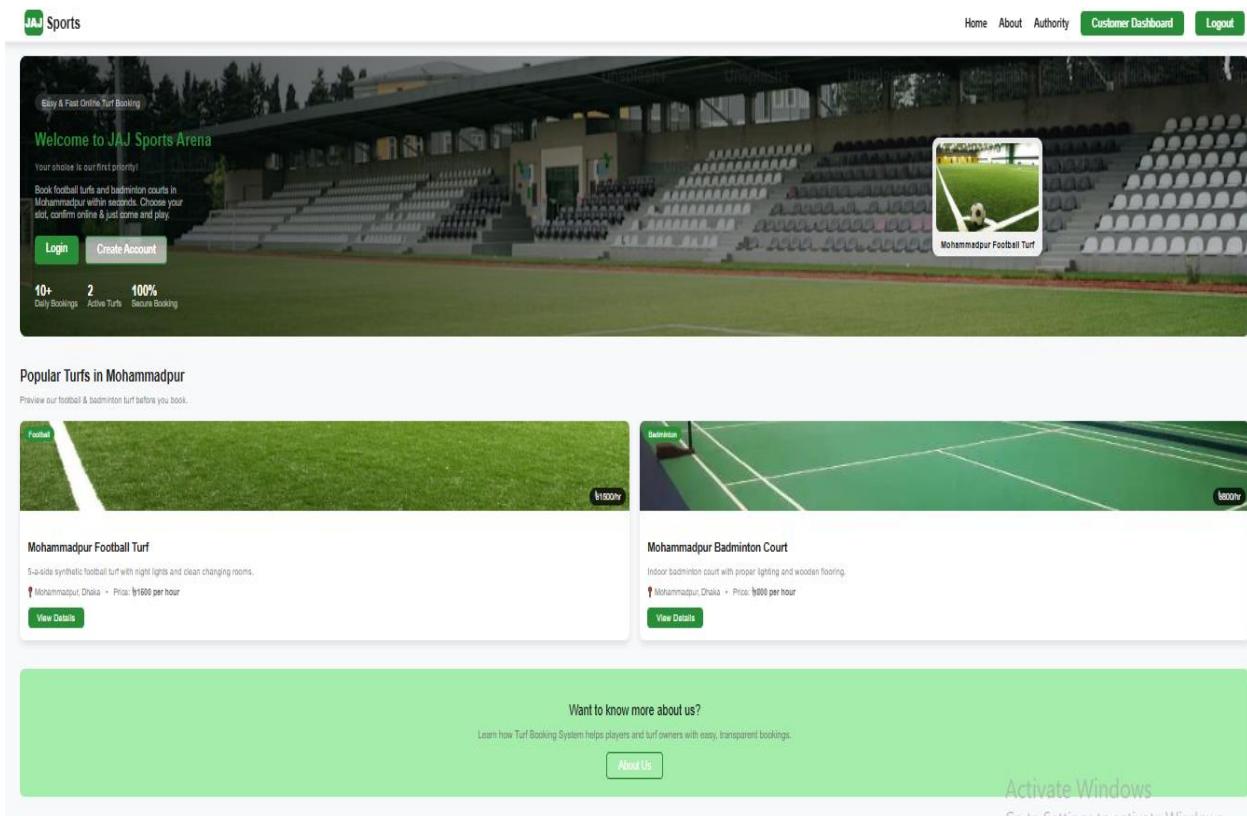


Figure 4.1: Main dashboard of the turf management system

Login Interface customer

Customer Login

Customer Manager Admin

Email

Password

Login as Customer

Forgot your password?

Or continue with

 Google

 Facebook

 GitHub

Can't log in? [Create an account](#)

Figure 4.2: Login interface of the turf management system

Customer Dashboard

Customer Dashboard

Welcome, sanzid 

Manage your bookings, check upcoming matches and book your favourite turf in seconds.

Overview

Total Bookings **0**

Upcoming **0**

Completed **0**

Quick Actions

[Mohammadpur Badminton Court](#) [Mohammadpur Football Turf](#) [View All My Bookings](#)

Upcoming Bookings

You have no upcoming bookings. [Book your first turf now](#) 

We Welcome Your Passion and Expertise

Join our sports community, book football & badminton turfs and grow with us.

[Join With Us](#)

Figure 4.3: customer dashboard of the turf management system

Available slots

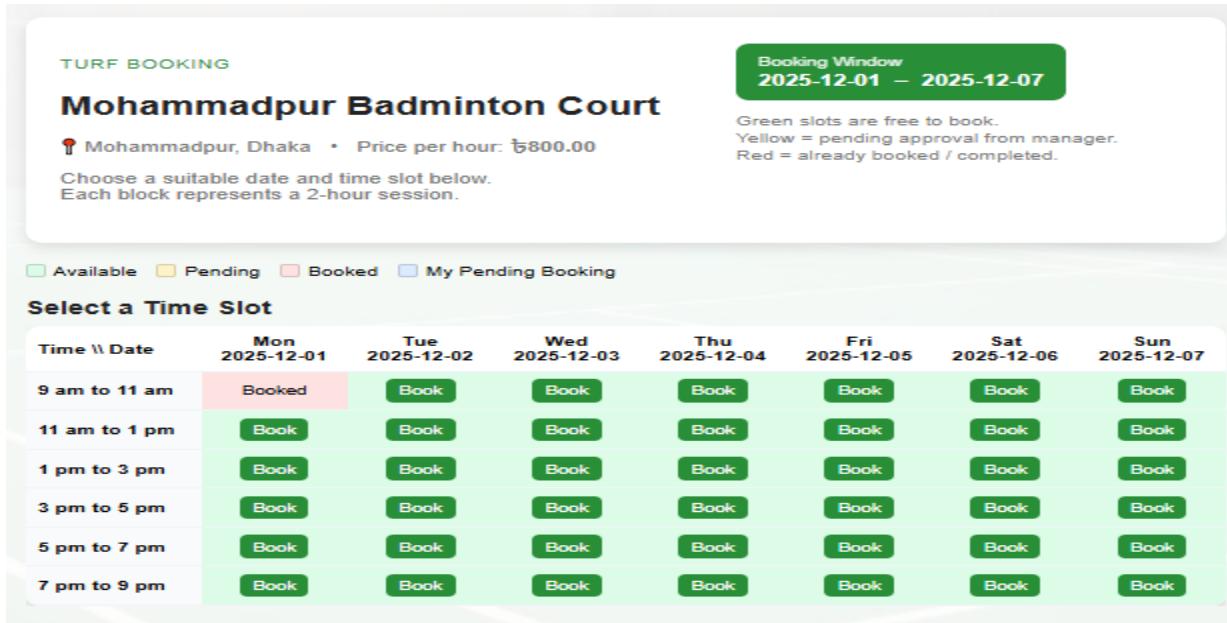


Figure 4.4: Slots of the turf management system

Customer booking list

My Bookings

Here you can see all your turf bookings and cancel pending ones.

Your payment was successful.

#	Turf	Sport	Date	Time	Total Price	Status	Payment	Action
1	Mohammadpur Badminton Court Mohammadpur, Dhaka	Badminton	2025-12-04	09:00 - 11:00	₹1,600.00	Pending	Paid	Cancel
2	Mohammadpur Badminton Court Mohammadpur, Dhaka	Badminton	2025-12-03	09:00 - 11:00	₹1,600.00	Cancelled	Unpaid	—
3	Mohammadpur Badminton Court Mohammadpur, Dhaka	Badminton	2025-12-02	09:00 - 11:00	₹1,600.00	Pending	Unpaid Pay Now	Cancel

Figure 4.5: Booking list of the turf management system

Dummy payment

The screenshot shows a payment interface. At the top, it displays booking details: "You are paying for: Mohammadpur Badminton Court", "Date: 2025-12-04", "Time: 09:00 - 11:00", and "Total Amount: ৳1,600.00". Below this, there is a field labeled "Mobile Number (Dummy)" containing "0161433434415". A "Pay Now" button is prominently displayed at the bottom.

You are paying for: Mohammadpur Badminton Court
Date: 2025-12-04
Time: 09:00 - 11:00
Total Amount: ৳1,600.00

Mobile Number (Dummy)

0161433434415

Amount (৳)

1600.00

Your Account Password

.....

Pay Now

Figure 4.6: payment of the turf management system

Admin Dashboard

The screenshot shows the Admin Control Panel dashboard. It features several key statistics and management links:

- DASHBOARD**: Total Users 12, Managers: 1 · Customers: 9.
- Total Bookings**: 22, Pending: 9.
- Total Users**: 12, Managers: 1 · Customers: 9.
- Total Bookings**: 22, Pending: 9.
- View All Booking List**: See every turf booking across football & badminton courts. Approve, reject or complete from the manager bookings page. [Open booking list →](#)
- Manage Users & Managers**: Promote customers to manager, add new managers, update roles and remove inactive accounts. [Manage users →](#)
- Reports & Analytics**: Coming soon. View monthly booking trends, top used turfs and revenue overview. [Available in next version](#)

Tip: Regularly review pending bookings and user roles to keep the platform smooth for both players and managers.

Figure 4.7: Admin dashboard of the turf management system

Manage Bookings

Manage Bookings										
View all turf bookings and update their status.										
Booking Date Update										
#	Turf	Customer	Phone	Date	Time	Total Price	Status	Payment	Action	
1	Mohammadpur Badminton Court	sanzid	01999081457	2025-12-04	09:00 - 11:00	₹1,600.00	Pending	Paid	Approve	Reject
2	Mohammadpur Badminton Court	sanzid	01999081457	2025-12-03	09:00 - 11:00	₹1,600.00	Cancelled	Unpaid		
3	Mohammadpur Badminton Court	sanzid	01999081457	2025-12-02	09:00 - 11:00	₹1,600.00	Pending	Unpaid	Approve	Reject
4	Mohammadpur Badminton Court	jihad ahamed	017	2025-12-01	09:00 - 11:00	₹1,600.00	Approved	Unpaid	Mark Completed	
5	Mohammadpur Football Turf	kawser	017	2025-11-29	11:00 - 13:00	₹3,000.00	Approved	Unpaid	Mark Completed	
6	Mohammadpur Badminton Court	Kawser	01645173153	2025-11-28	13:00 - 15:00	₹1,600.00	Pending	Paid	Approve	Reject
7	Mohammadpur Badminton Court	jihad ahamed	017	2025-11-28	11:00 - 13:00	₹1,600.00	Approved	Unpaid	Mark Completed	
8	Mohammadpur Badminton Court	shhd	01404591410	2025-11-28	09:00 - 11:00	₹1,600.00	Cancelled	Unpaid		
9	Mohammadpur Badminton Court	MD MEHRAF HOSSEN	0161076980d	2025-11-26	15:00 - 17:00	₹1,600.00	Pending	Unpaid	Approve	Reject
10	Mohammadpur Football Turf	kawser	017	2025-11-26	13:00 - 15:00	₹3,000.00	Approved	Unpaid	Mark Completed	
11	Mohammadpur Badminton Court	jihad ahamed	017	2025-11-26	09:00 - 11:00	₹1,600.00	Approved	Unpaid	Mark Completed	
12	Mohammadpur Football Turf	kawser	017	2025-11-22	13:00 - 15:00	₹3,000.00	Approved	Unpaid	Mark Completed	
13	Mohammadpur Badminton Court	kawser	017	2025-11-22	11:00 - 13:00	₹1,600.00	Pending	Unpaid	Approve	Reject
14	Mohammadpur Football Turf	kawser	017	2025-11-21	13:00 - 15:00	₹3,000.00	Rejected		Unpaid	
15	Mohammadpur Badminton Court	sana	017	2025-11-21	13:00 - 15:00	₹1,600.00	Approved		Unpaid	Mark Completed
16	Mohammadpur Badminton Court	kawser	017	2025-11-21	11:00 - 13:00	₹1,600.00	Rejected		Unpaid	

Figure 4.8: Booking list of the turf management system

Manage users and managers

Manage Users & Managers

Promote customers to managers, add new managers and clean up inactive accounts.

Add New Manager

Create a manager account with direct access to manager dashboard.

Full Name

Email

Phone

Password

Create Manager

All Users

Total users: 12

#	Name & Email	Phone	Role	Join
1	sanzid sanzid200@gmail.com	01999081457	Customer	2025-12-1 02:1
2	jihad ahamed designproject2222@gmail.com	017	Customer	2025-12-1 10:0
3	Jihad Ahamed jaj016017@gmail.com	017	Admin	2025-12-1 05:2
4	sakib sakib@gmail.com	017	Customer	2025-12-0 22:1
5	MD MEHRAF HOSSEN dhhdbdronym0358@gmail.com	0161076980d	Customer	2025-12-0 22:1
6	Hdhbdjdb ronym0358@gmail.com	01000000000	Customer	2025-12-0 22:1

Figure 4.8.1: managing of the turf management system

Manager Dashboard

The dashboard features a header with 'DASHBOARD' and 'Manager Panel'. A 'Role Manager' badge is present. A welcome message 'Welcome, jihad' with a hand icon is displayed. A tip about checking booking requests is shown. Two main sections are visible: 'View Booking Requests' (marked as 'New') and 'Analytics & Reports' (marked as 'Coming soon').

View Booking Requests (New)

See all pending, approved and completed bookings for your football & badminton turfs in one place.

[Open requests →](#)

Analytics & Reports (Coming soon)

View peak hours, most used turfs and monthly booking summary.

[Available in next version](#)

Figure 4.9: Manager dashboard of the turf management system

Manager manage booking

Manage Bookings										
View all turf bookings and update their status.										
Booking Date Update										
#	Turf	Customer	Phone	Date	Time	Total Price	Status	Payment	Action	
1	Mohammadpur Badminton Court	sanzid	01999081457	2025-12-04	09:00 - 11:00	₹1,600.00	Pending	Paid	Approve Reject	
2	Mohammadpur Badminton Court	sanzid	01999081457	2025-12-03	09:00 - 11:00	₹1,600.00	Cancelled	Unpaid		
3	Mohammadpur Badminton Court	sanzid	01999081457	2025-12-02	09:00 - 11:00	₹1,600.00	Pending	Unpaid	Approve Reject	
4	Mohammadpur Badminton Court	jihad ahamed	017	2025-12-01	09:00 - 11:00	₹1,600.00	Approved	Unpaid	Mark Completed	
5	Mohammadpur Football Turf	kawser	017	2025-11-29	11:00 - 13:00	₹3,000.00	Approved	Unpaid	Mark Completed	
6	Mohammadpur Badminton Court	Kawser	01645173153	2025-11-28	13:00 - 15:00	₹1,600.00	Pending	Paid	Approve Reject	
7	Mohammadpur Badminton Court	jihad ahamed	017	2025-11-28	11:00 - 13:00	₹1,600.00	Approved	Unpaid	Mark Completed	
8	Mohammadpur Badminton Court	shhd	01404591410	2025-11-28	09:00 - 11:00	₹1,600.00	Cancelled	Unpaid		
9	Mohammadpur Badminton Court	MD MEHRAF HOSSEN	0161076980d	2025-11-26	15:00 - 17:00	₹1,600.00	Pending	Unpaid	Approve Reject	
10	Mohammadpur Football Turf	kawser	017	2025-11-26	13:00 - 15:00	₹3,000.00	Approved	Unpaid	Mark Completed	
11	Mohammadpur Badminton Court	jihad ahamed	017	2025-11-26	09:00 - 11:00	₹1,600.00	Approved	Unpaid	Mark Completed	
12	Mohammadpur Football Turf	kawser	017	2025-11-22	13:00 - 15:00	₹3,000.00	Approved	Unpaid	Mark Completed	
13	Mohammadpur Badminton Court	kawser	017	2025-11-22	11:00 - 13:00	₹1,600.00	Pending	Unpaid	Approve Reject	
14	Mohammadpur Football Turf	kawser	017	2025-11-21	13:00 - 15:00	₹3,000.00	Rejected	Unpaid		
15	Mohammadpur Badminton Court	sana	017	2025-11-21	13:00 - 15:00	₹1,600.00	Approved	Unpaid	Approve Reject	
16	Mohammadpur Badminton Court	kawser	017	2025-11-21	11:00 - 13:00	₹1,600.00	Pending	Unpaid	Approve Reject	

Figure 4.10: managing of the turf management system

4.5 Interface Requirements

Wireframe

Homepage Wireframe:

Welcome to JAI Sports Arena
Your choice is our priority!

Popular Tournaments

Football Badminton

[View Details](#) [View Details](#)

[About Us](#)

Login Register

Customer Registration Wireframe:

Customer Registration

Name: _____

Email: _____

Phone: _____

Password: _____

Confirm Password: _____

[Register](#)

Customer Login Wireframe:

Customer Login

[Customer](#) [Manager](#) [Admin](#)

Email: _____
200199sc@gmail.com

Password: _____

[Login as customer](#)

We Welcome Your Passion and Expertise
Join our sports community, grow with us
[Join with Us](#)

Contact US Quick Links Support Other Links Location

Home Turf Bookings
Turf Bookings

Feedbacks Add Venue
Fixes Join as coach

Turf Booking Page Wireframe:

Turf Booking Page

Book Turf: Mohanlalpur Badminton Court
Location: 1 Prints per hour: 800.00

Showing slots from 2025-12-01 to 2025-12-07

Available slots

Time/Date	Mon 2025-12-01	Tue 2025-12-02	Wed 2025-12-03	Thurs 2025-12-04	Fri 2025-12-05	Sat 2025-12-06	Sun 2025-12-07
9:00 - 11:00 am	Already Booked	Click for Book	Click for Book	Pending	Pending	Click for Book	Pending
11:00 - 1:00 pm	Already Booked	Pending	Pending	Pending	Pending	Pending	Pending
3:00 - 5:00 pm	Pending	Pending	Pending	Pending	Already Booked	Click for Book	Click for Book
7:00 - 9:00 pm	Already Booked	Pending	Click for Book	Pending	Pending	Pending	Click for Book

4.6 Figma Design

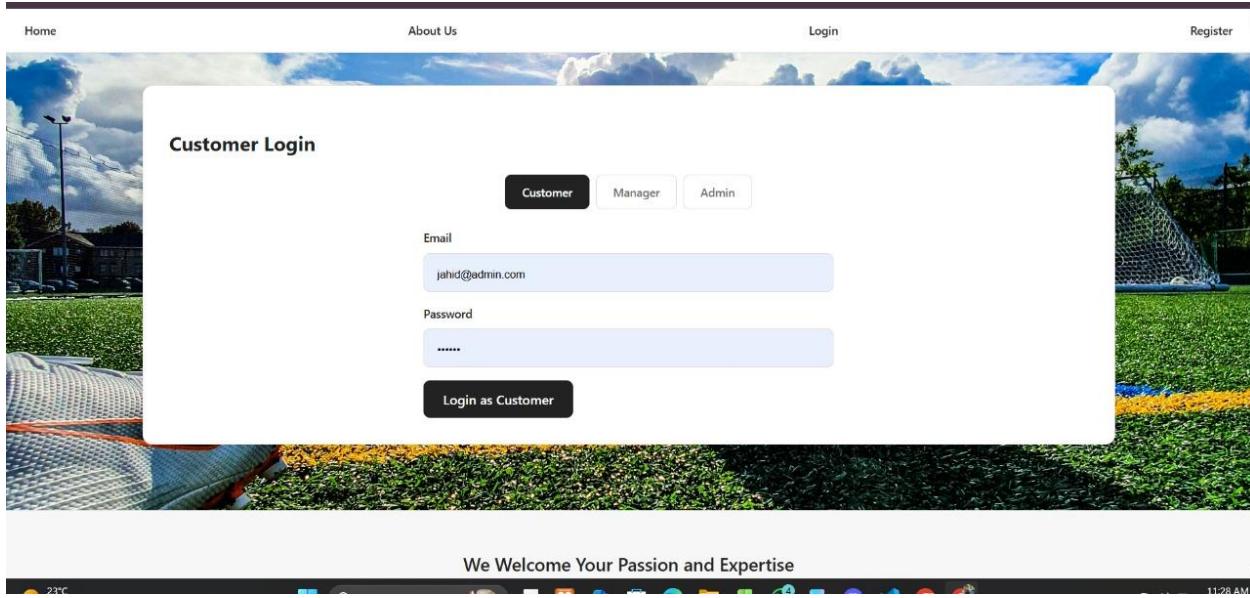


Figure 5.1: Log in turf management system

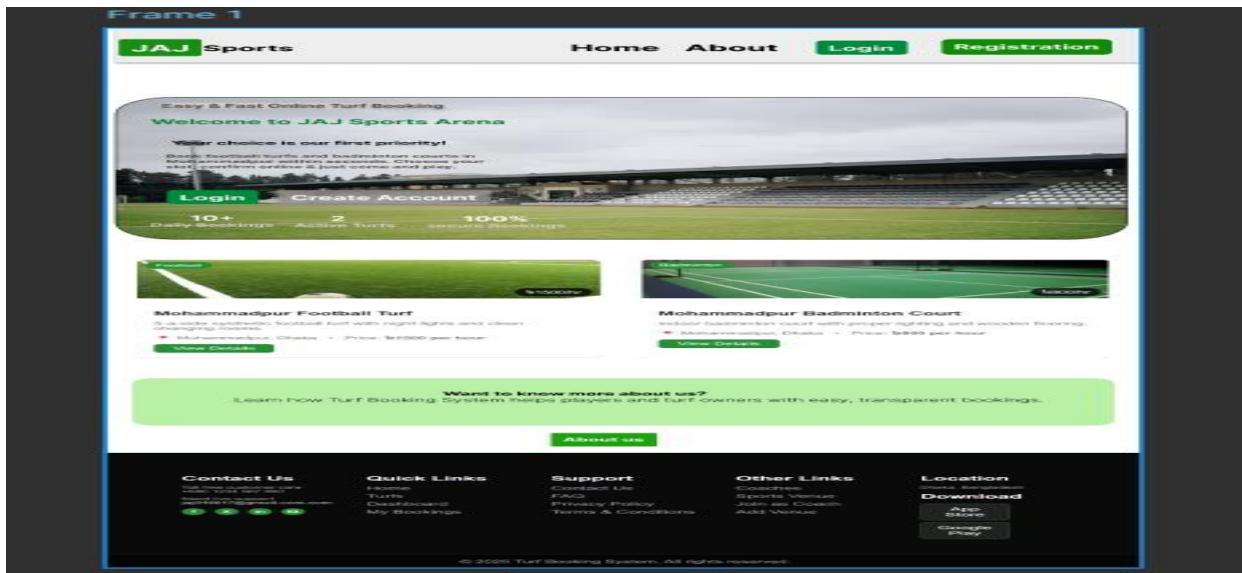


Figure 5.2.: Main Dashboard of the turf management system

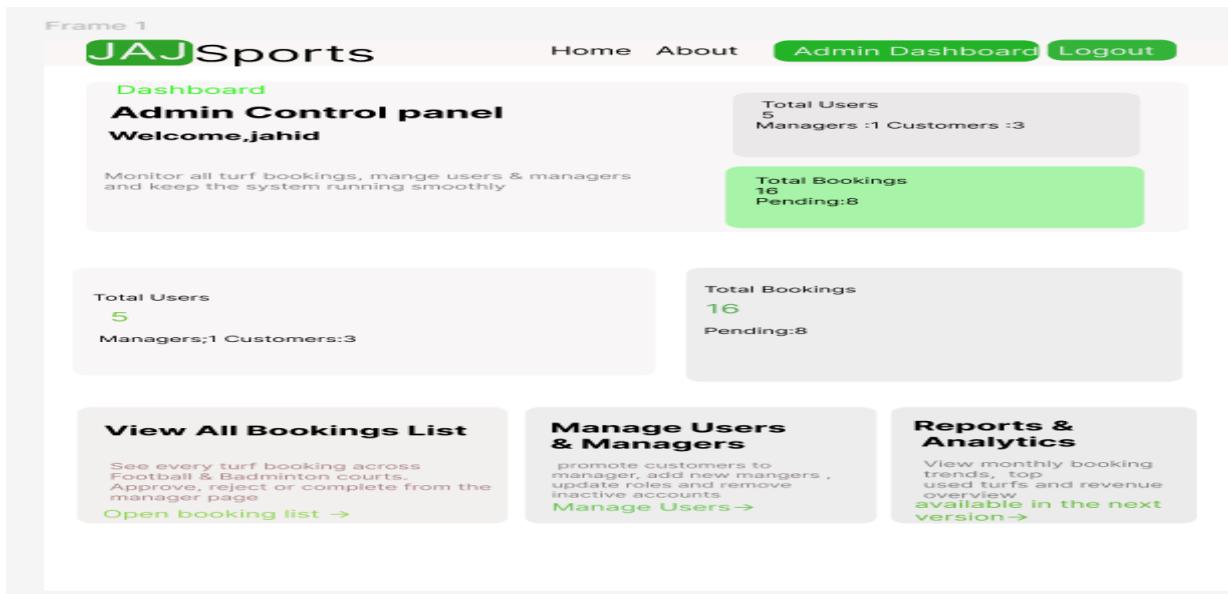


Figure 4.4: Admin Dashboard the turf management system

Customer Registration

Name

Email

Phone

password

Confirm Password

Create Account

Figure 4.4: Slots of the turf management system

4.7 Figma link

<https://www.figma.com/design/jtAhSjDYdyE9YovfizcFQn/Untitled?node-id=7-23&t=P8ObiWek2aH9a9sI-1>

<https://www.figma.com/design/YdFq6VpYX9lejcxv0FK7ho/dp2?node-id=1-2&t=KJsDkxLsAGz8fFwB-1>

4.8 Github link

<https://github.com/Jihad08-coder>

Testing

Testing ensures the Turf Booking Management System functions as expected. The following testing activities were performed:

- **Unit Testing:** Testing individual modules like user authentication, booking system, payment integration, and the admin dashboard.
- **Integration Testing:** Ensuring smooth interaction between modules, such as booking and payment processing, and notifications.
- **System Testing:** End-to-end testing of the full system to ensure all features work together, with a focus on security, performance, and functionality.
- **User Acceptance Testing (UAT):** Real users tested the system to confirm it's user-friendly and meets their needs, including feedback for improvements.
- **Regression Testing:** Ensuring that new changes didn't disrupt existing features.
- **Load Testing:** Simulating multiple users to ensure the system handles peak traffic efficiently.

Conclusion and Future Work

5.1 Summary of the Project

The Turf Booking Management System is a web-based platform designed to simplify the process of booking sports turfs for customers while providing turf owners and managers with tools to efficiently manage bookings, payments, and turf availability. The system includes features like user registration, real-time turf availability, booking management, payment integration, and notifications. The system was developed using technologies like PHP, MySQL, and Bootstrap, ensuring a scalable, secure, and user-friendly platform.

5.2 Achievements

The project has successfully met its key objectives, including:

- **Automated Turf Booking:** The system allows customers to view available turfs and make instant bookings, eliminating the need for manual booking methods.
- **Efficient Management:** Turf owners and managers can easily approve, reject, and track bookings, as well as manage payment processing.
- **Real-Time Availability:** Customers can check turf availability in real-time, ensuring a smooth booking experience.
- **Admin Control:** Administrators can manage users, monitor system performance, and generate reports on bookings and payments.

5.3 Limitations

While the Turf Booking Management System provides significant improvements, some limitations remain:

- **Mobile Application:** The current system is web-based and does not offer a dedicated mobile app, limiting its accessibility for some users.
- **Third-Party Integrations:** The system is not yet integrated with external platforms (e.g., calendar systems, social media, or third-party booking platforms).
- **Advanced Features:** Features like AI-based recommendations or dynamic pricing based on demand are not included in the current scope.

5.4 Future Work

To further enhance the system, the following future improvements are suggested:

- **Mobile Application:** Develop a mobile app for iOS and Android to provide customers with more accessible booking options on the go.
- **Advanced Features:** Integrate AI-based features for booking recommendations and dynamic pricing based on availability.
- **Third-Party Integrations:** Integrate the system with external platforms to provide additional features like social media login, calendar integration, or cross-platform booking capabilities.
- **Extended Reporting:** Enhance the reporting features to include more detailed analytics on turf usage, customer behavior, and financial insights.

5.5 Closing Remarks

The Turf Booking Management System has successfully addressed the challenges associated with managing and booking sports turfs. By automating key processes such as turf availability checking, booking management, and payment processing, the system offers a streamlined and efficient solution for customers, turf owners, and managers alike. Through the use of modern web technologies, the system is scalable, secure, and user-friendly, providing a reliable platform for all users involved.

While the system has met its primary objectives, there is still potential for future enhancements, such as mobile app development and integration with external platforms. These improvements will help to further expand the system's capabilities and offer even greater convenience to users.

Overall, this project lays the foundation for a more efficient and modern approach to turf booking and management, contributing to a smoother experience for both customers and administrators.

Turf Booking Management System functions as expected. The following testing activities were performed:

- **Unit Testing:** Testing individual modules like user authentication, booking system, payment integration, and the admin dashboard.
- **Integration Testing:** Ensuring smooth interaction between modules, such as booking and payment processing, and notifications.
- **System Testing:** End-to-end testing of the full system to ensure all features work together, with a focus on security, performance, and functionality.
- **User Acceptance Testing (UAT):** Real users tested the system to confirm it's user-friendly and meets their needs, including feedback for improvements.
- **Regression Testing:** Ensuring that new changes didn't disrupt existing features.
- **Load Testing:** Simulating multiple users to ensure the system handles peak traffic efficiently.