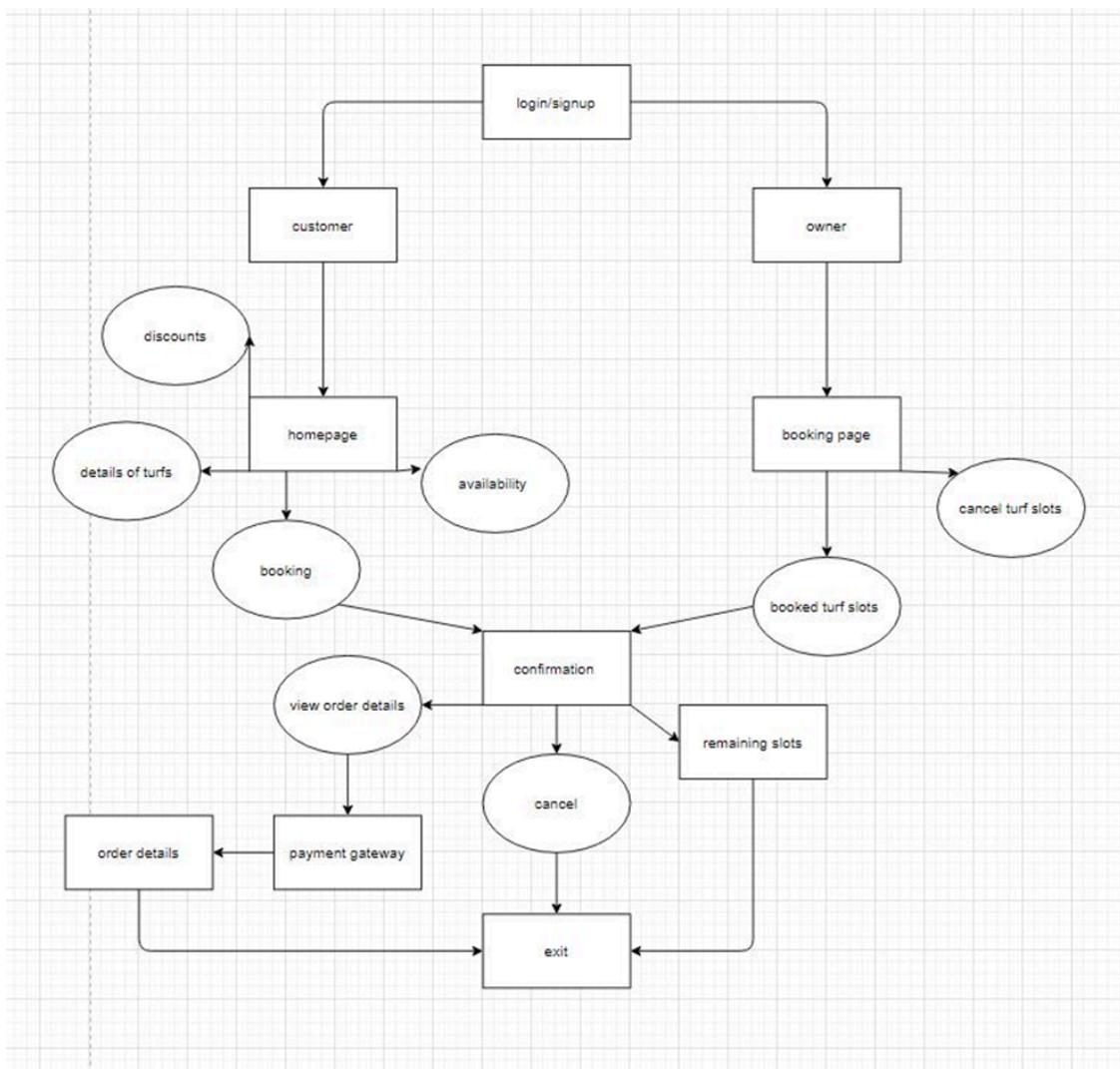


# TurfFinder- Booking Platform

## 1. Introduction

The **Turf Booking Website** is a full-stack web application that allows users to book turf slots for sports and recreational activities. The platform provides a user-friendly interface where users can log in, sign up, and select available slots on a specific date. The booking process includes slot selection, and checkout, making the user experience seamless and intuitive. Additionally, users can view and manage their bookings through an order history tab with the ability to delete bookings if necessary.

## 2. Use Case Diagram



## **Explanation:**

- The **User** can log in, view available turfs, select dates and slots, make payments, view their order history, delete bookings, and access the About Us and Contact Us pages.
- The **Admin** manages turf availability, updates slots, and can view all user bookings.

## **3. Tech Stack Used**

### **Frontend:**

- **HTML/CSS/JavaScript:**
  - Used for creating a responsive and user-friendly interface.
  - CSS and JavaScript enable dynamic components, such as slot selection and interactive modals.
- **Bootstrap:**
  - Accelerates UI development with pre-designed components and ensures mobile responsiveness.

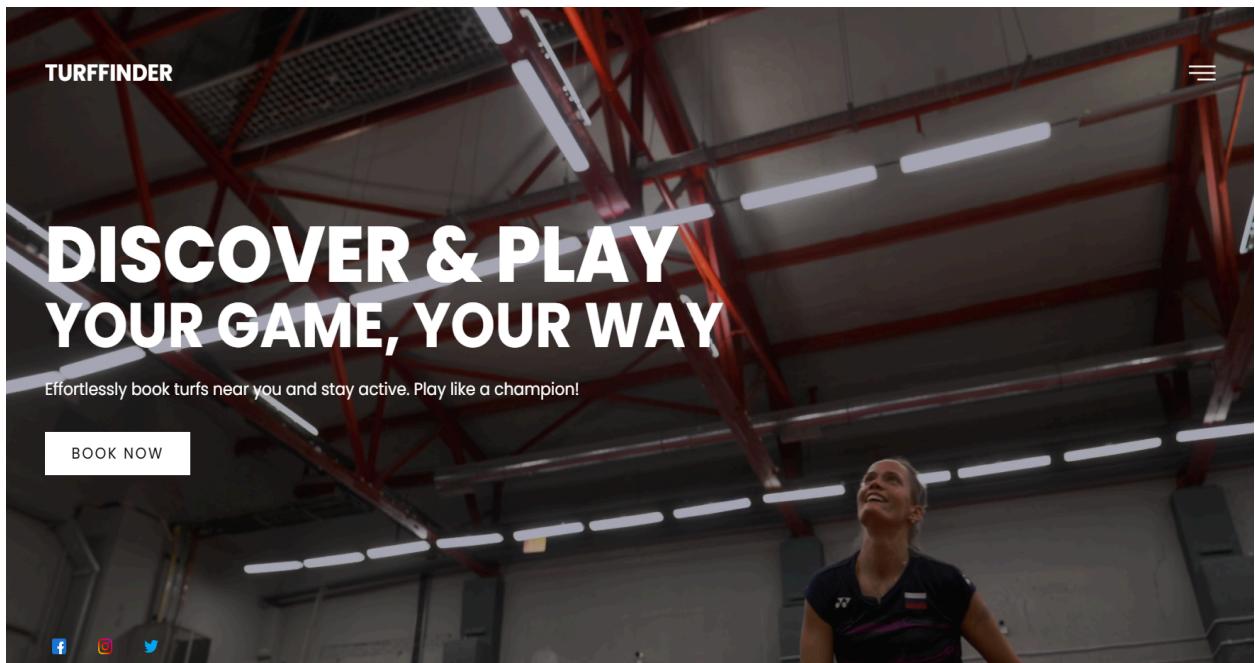
### **Backend:**

- **Python (Django Framework):**
  - Provides a robust, secure, and scalable foundation for the backend.
  - Django's ORM simplifies database operations, ensuring efficient data handling.

### **Database:**

- **SQLite:**
  - Lightweight, embedded database suitable for small to medium-scale applications.
  - Easy integration with Django for storing user credentials and booking details.

#### 4. Images



# Booking Turf Has Never Been This Easy!

Access your ideal playing ground in seconds.



**Yamuna Sports Complex**



**Galaxy Turf**  
Bandra



**Victory Grounds**  
Kurla



**Prime Turf Arena**  
Andheri (West)



### Yamuna Sports Complex

New Delhi

Cricket, Football (7v7),  
Basketball

[Book Now](#)



### Galaxy Turf

Bandra

Cricket, Football (5v5)

[Coming Soon](#)



### Victory Grounds

Kurla

Cricket, Football (6v6),  
Volleyball

[Coming Soon](#)



### Prime Turf Arena

Andheri (West)

Cricket, Football (7v7),  
Badminton

[Coming Soon](#)



TurfFinder

[Home](#) [Book Now](#) [About Us](#) [Contact Us](#) [Order History](#) [Hello, hp](#) [Logout](#)

## Our Mission

We aim to make sports more accessible for everyone and maximize the use of sports facilities.



### Advance Reservation

Book your turfs in advance for convenience  
and guaranteed availability.



### Real-time Notifications

Get SMS and email alerts for your booking  
or cancellation status.



### Rate and Review

Share your feedback and rate the turfs after  
each play.



### Multiple Payment Options



### Discount Vouchers



### Location Search

# Get in Touch with Us

Your Name

Your Email

Please fill out this field.

Your Contact No

Your Message

Submit

TurfFinder

Home Book Now About Us Contact Us Order History Hello, hp Logout

## My Bookings:

### Booking Details:

Name:

Booking Date: **Dec. 8, 2024**

Email:

Selected Date: **Dec. 13, 2024**

Booking Time: **12:51:44**

Slots: **8-9 am**

Total Amount: **Rs. 700**

Cancel

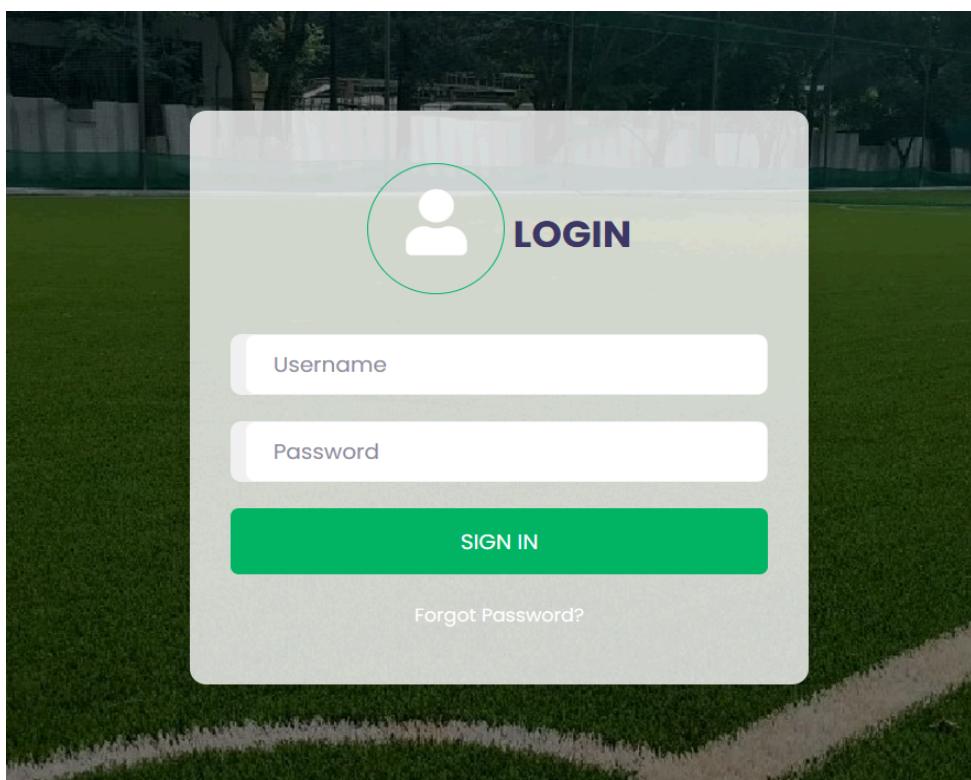
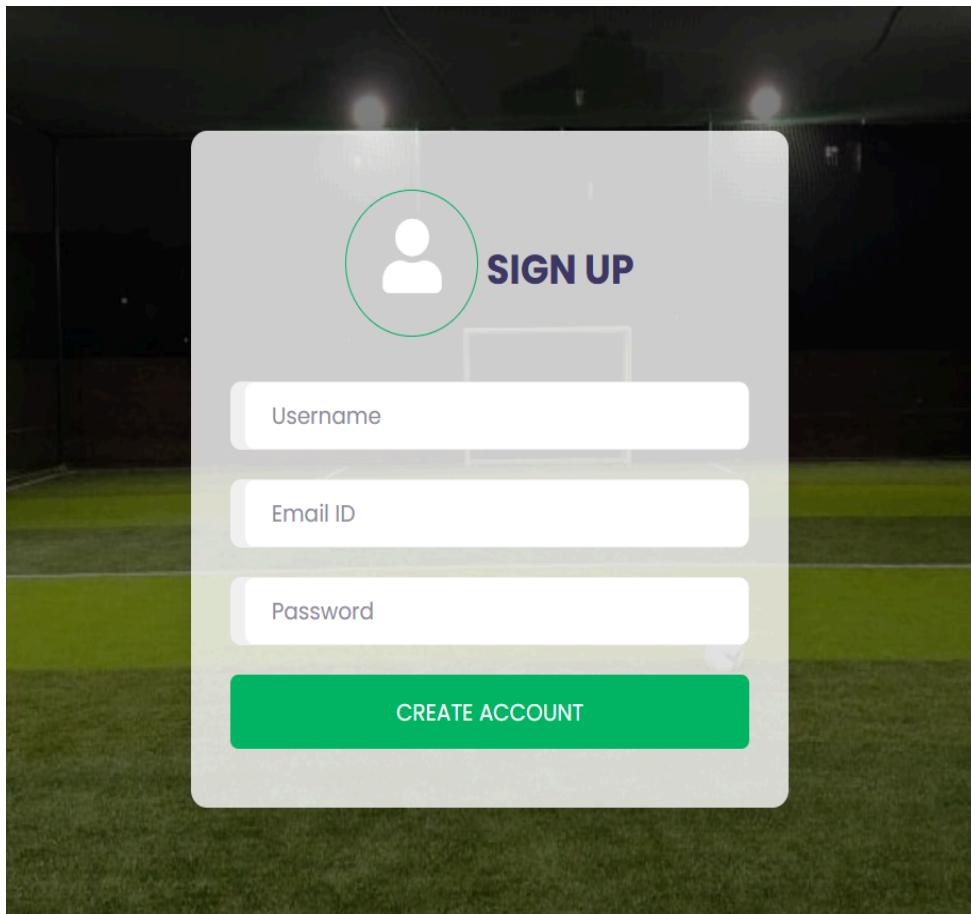
### Booking Details:

Name:

Booking Date: **Dec. 8, 2024**

Email:

Selected Date: **Dec. 8, 2024**



## 5. Challenges Faced

### 1. Time Constraints:

Due to limited time, I first focused on implementing core functionalities like slot booking, cancellation and authentication. Features like payments and feedback were deferred for future development.

### 2. Frontend-Backend Integration Issues:

During development, syncing the frontend forms with backend views proved challenging. Postman was used to test API endpoints, and error handling was added to ensure smooth communication.

### 3. Database Schema Flexibility:

SQLite was chosen for its robustness, but the schema required iterative changes to accommodate evolving requirements during development.

### 4. Deployment Challenge – Rendering Images:

After deployment, an issue arose where venue photos and other images were not rendering properly. This was traced to incorrect static file configurations in the Django settings. The solution involved properly configuring the STATIC and MEDIA settings and ensuring that the web server (e.g., Nginx or Apache) served static and media files correctly.

## 5. Future Improvements

### 1. Real Payment Gateway Integration:

- **Current State:** Payment logic is simulated.
- **Improvement:** Integrate a secure payment gateway (like Razorpay, Stripe, or PayPal) to handle real-world payments.

### 2. Enhanced Slot Selection:

- **Current State:** Users can select 1-hour slots but can't view real-time availability as others book.
- **Improvement:** Implement a real-time booking system using WebSockets so that slot availability updates instantly for all users.

### 3. Email Notifications:

- **Current State:** Booking confirmation is only displayed on the website.
- **Improvement:** Send users an email confirmation of their bookings and payment receipts.

### 4. User Review and Ratings:

- **Current State:** Users can only book and manage orders.

- **Improvement:** Allow users to leave reviews and ratings for the turf experience, which could be useful for other users.

**5. Booking Cancellation Policy:**

- **Current State:** Users can delete bookings without constraints.
- **Improvement:** Implement a cancellation policy where users can cancel bookings up to a specific time frame (e.g., 24 hours before the booking date) to prevent last-minute cancellations.

**6. Improved User Interface (UI/UX):**

- **Current State:** The website uses a basic layout for bookings and checkout.
- **Improvement:** Improve the UI by adding modern design elements like animations, hover effects, and a cleaner, more intuitive booking process.