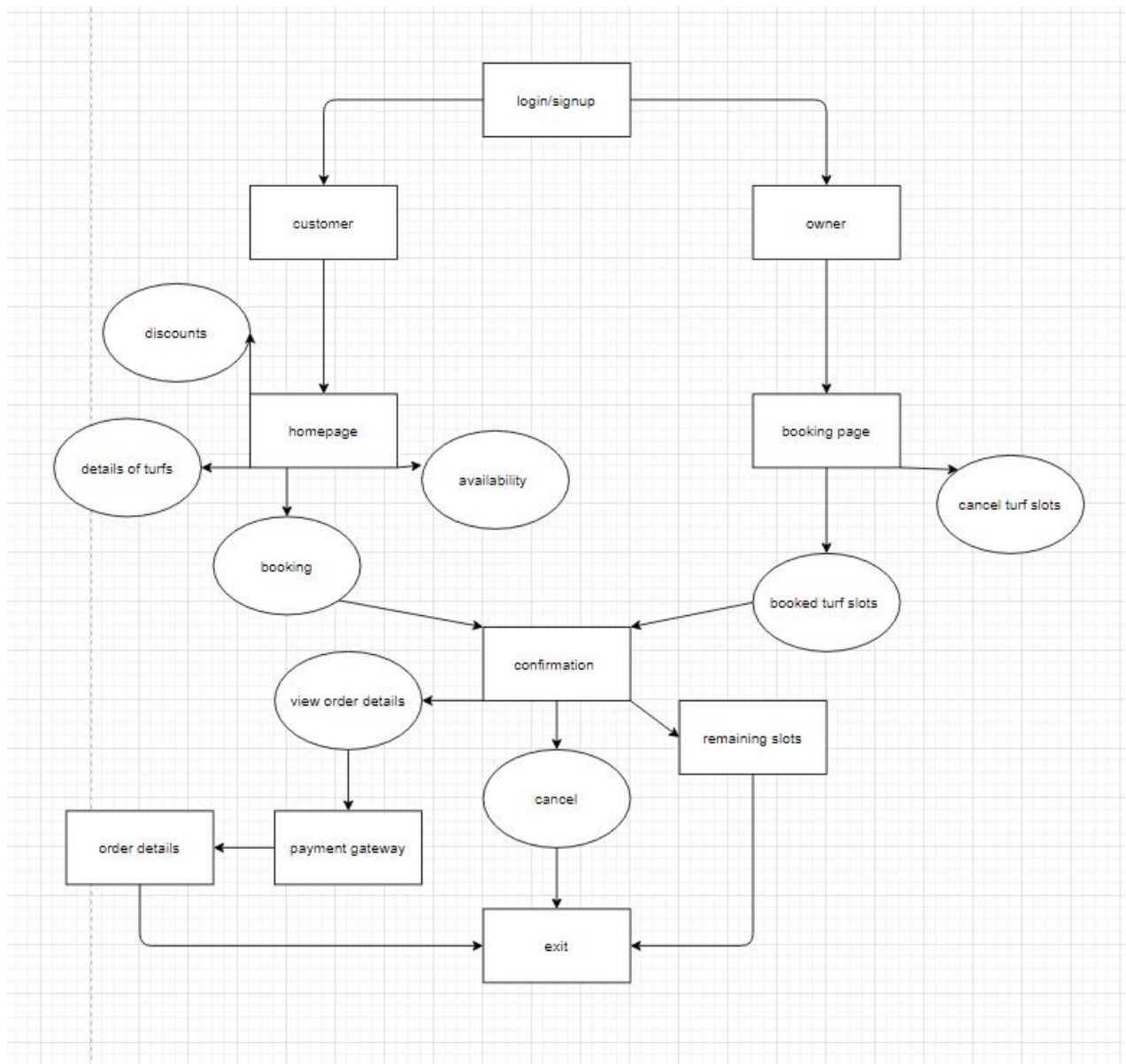


Sports-Booking-System

Introduction

It is a web application that simplifies the process of booking sports venues and events. Built using Django on the backend, it offers users a seamless way to explore, filter, and book facilities. Administrators can efficiently manage schedules, venues, and user bookings. This system aims to streamline the booking process, prevent scheduling conflicts, and enhance the overall user experience.

System Design



Technology Used

1. Frontend :

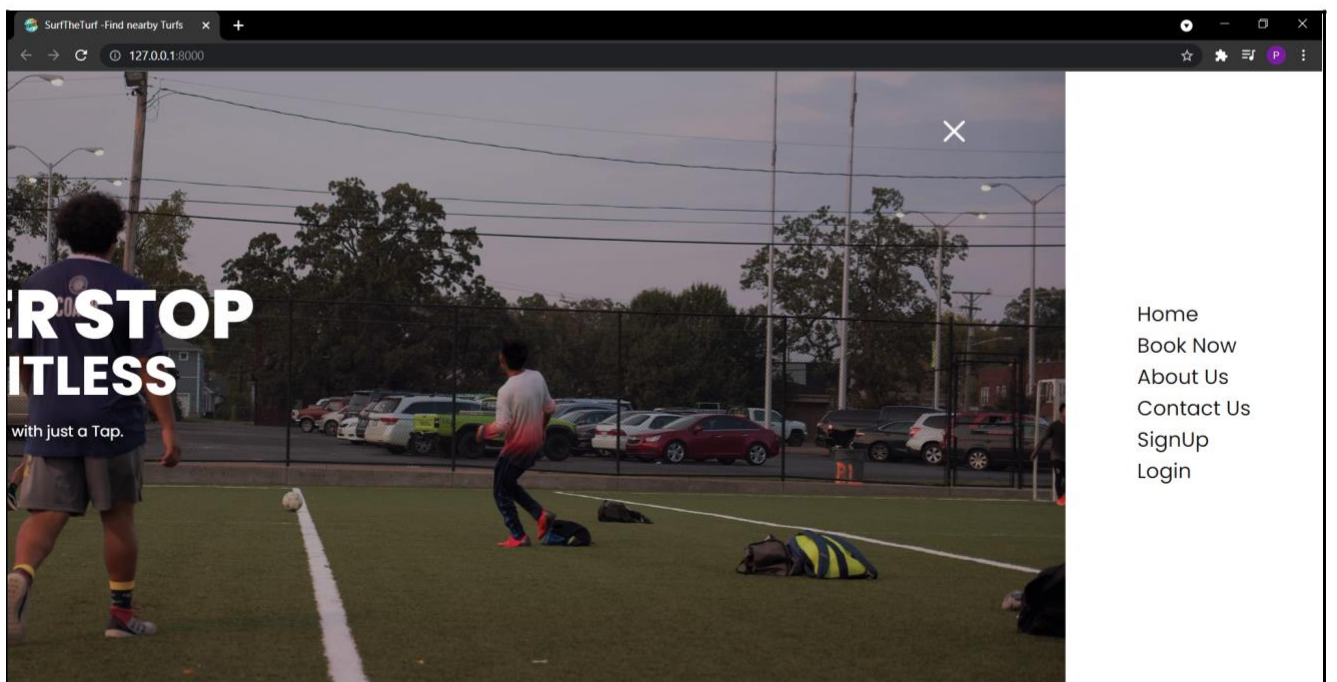
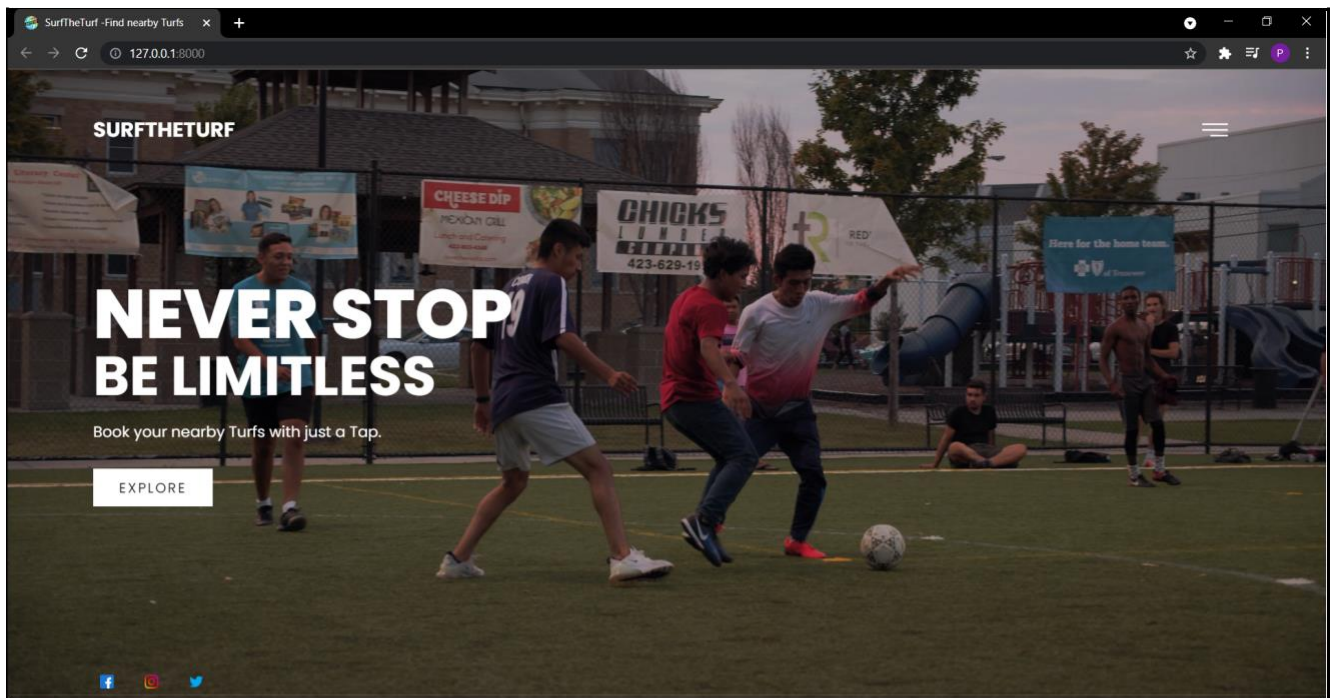
- a. HTML: HTML is the standard markup language for Web pages. We used it to design our web pages.
- b. CSS: CSS is the language we used to style our pages.
- c. JavaScript: We used JavaScript to program the behavior of web pages
- d. Bootstrap: Bootstrap was used to improve the design of the web pages and make them responsive.

2. Backend :

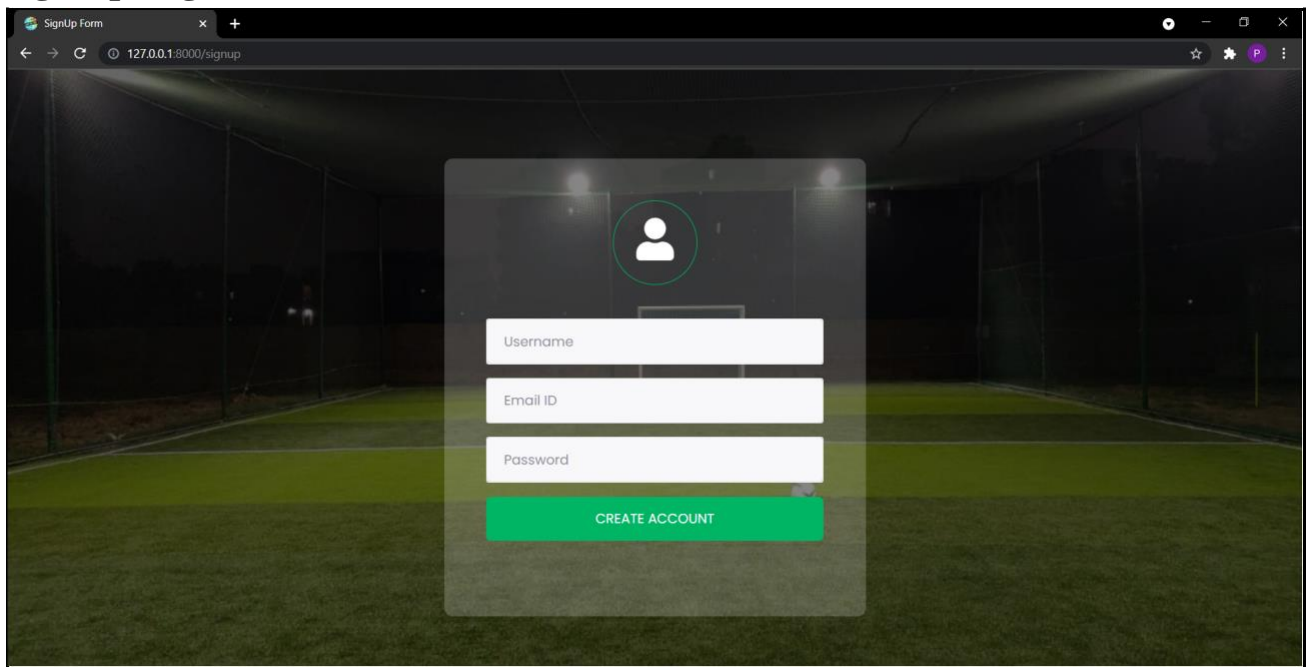
- a. Django: We used it for slot booking, user signup, login and to connect different urls and views.
- b. SQLite: We used SQLite to store the login credentials of our users and their booking details.

Results

Intro Page:



Sign Up Page:



SignUp Form

127.0.0.1:8000/signup

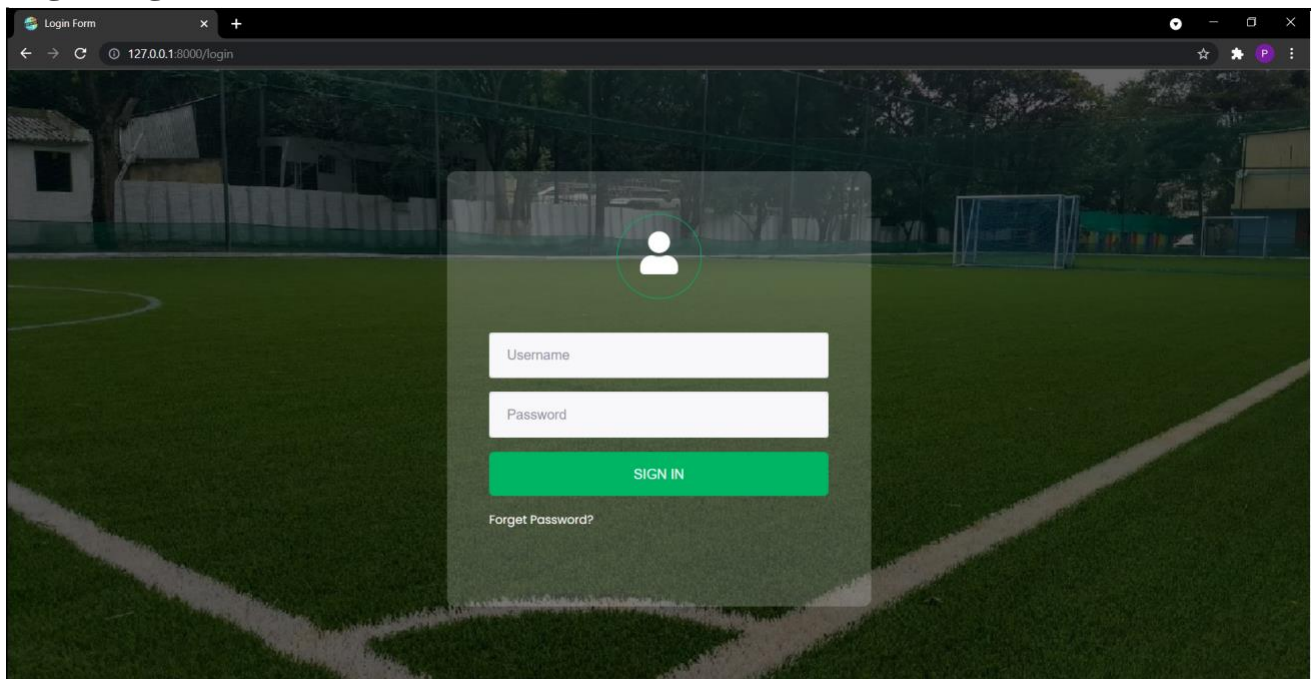
Username

Email ID

Password

CREATE ACCOUNT

Login Page:



Login Form

127.0.0.1:8000/login

Username

Password

SIGN IN

[Forget Password?](#)

Booking Page:

BookTurf


127.0.0.1:8000/book_now

SurfTheTurf


[Home](#) [BookNow](#) [AboutUs](#) [ContactUs](#) [Order History](#) [Hello, dev](#) [Logout](#)

Your Wait is Over!!


Turf booking just a tap away!




Sir JP Sports Arena
Malad(West)



Tiger play
Andheri(West)




Battlefield Turf
Andheri(East)




Smash up turf
Kandivali(West)

BookTurf


127.0.0.1:8000/book_now




Sir JP Sports Arena
Malad(West)
Cricket,Football(7v7)
[Book Now](#)




Tiger play
Andheri(West)
Cricket,Football(5v5)
[Book Now](#)




Battlefield Turf
Andheri(East)
Cricket,Football(6v6)
[Book Now](#)




Smash up turf
Kandivali(West)
Cricket,Football(6v6)
[Book Now](#)




Gururanak Sports Turf
Santacruz(East)



Turf on Sports
Marine lines



Gallant Sports Arena
Juhu



BallPark-Atria Mall
Worli

127.0.0.1:8000/turf_details

Turf Details Page:

TurfDetails

127.0.0.1:8000/turf_details


SurfTheTurf

Home BookNow AboutUs ContactUs

Logout

Sir JP Sports Arena

Cricket Football



Location:

1, Bhoomi Park Phase 2 Rd, Malad, Jankalyan Nagar, Malad West, Mumbai, Maharashtra 400095

[Map View](#)

Amenities

Parking

Washroom

FloodLights

Stumps

FootBalls

DrinkingWater

TurfDetails

127.0.0.1:8000/turf_details

Select Date To Book:

21-10-2021

Book Now

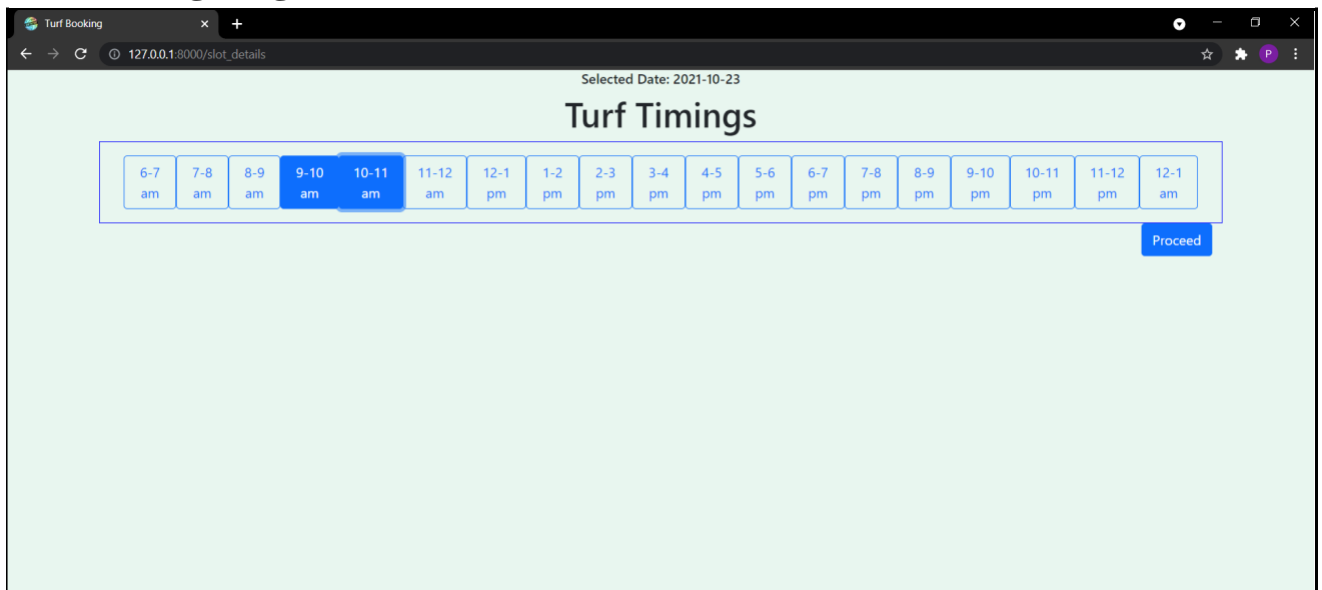
Terms & Conditions Applied

We have to be aware of the fact that the global pandemic of Covid-19 has not ended in Mumbai. Hence, we'll be restarting with some rules. **We are confident that our valued customers will definitely abide by all the guidelines we set before booking:**

- All customers MUST arrive at the venue wearing masks. Any customers without masks will not be allowed in the premises
- Only stumps will be provided at the turf. Footballs, bats, cricket balls must be brought by the customers
- Turf timings have been limited to 6 am to 6 pm only
- No more than 14 players will be allowed on the premises at any given time. No spectators will be allowed during the booking
- All players are requested to sanitize their hands before entering the ground.
- Turf and all other equipment provided by turf will be sanitized on timely basis.

Copyright © SurfTheTurf 2021

Slot Bookings Page:

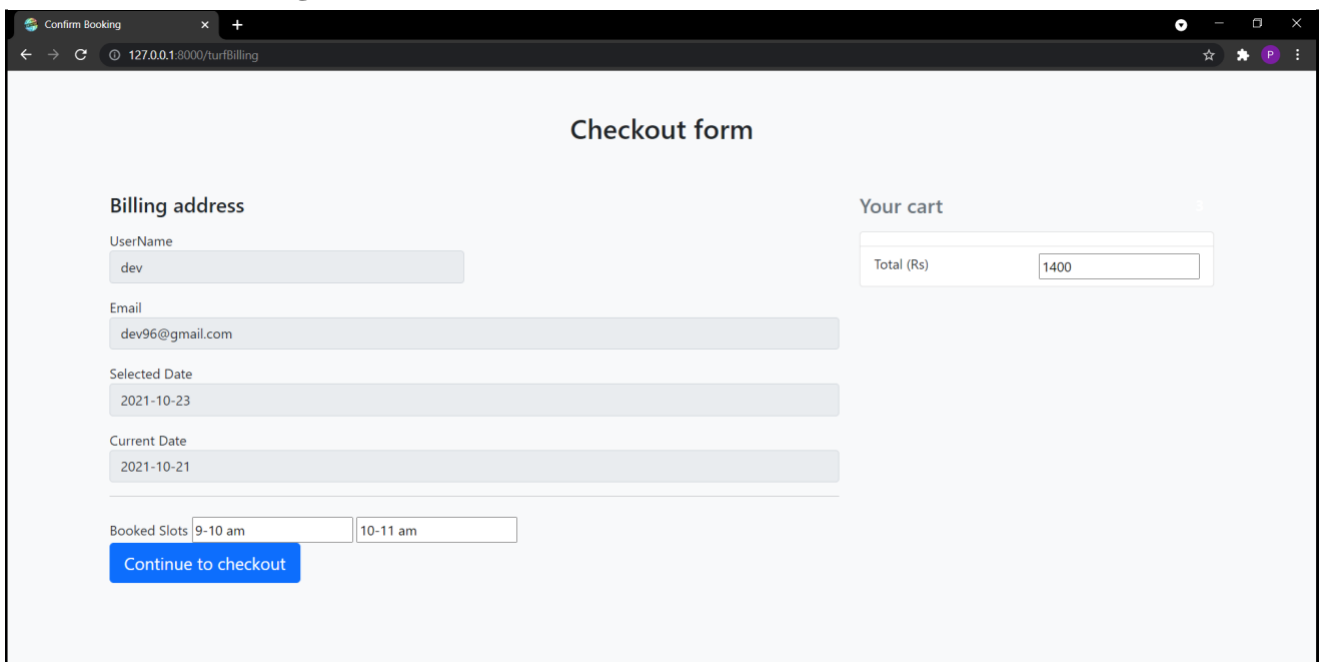


The screenshot shows a web browser window titled "Turf Booking" with the URL "127.0.0.1:8000/slot_details". The page displays "Selected Date: 2021-10-23" and "Turf Timings". A horizontal row of 18 time slots is shown, with "9-10 am" and "10-11 am" highlighted in blue. A "Proceed" button is located at the bottom right of the slot row.

6-7 am	7-8 am	8-9 am	9-10 am	10-11 am	11-12 am	12-1 pm	1-2 pm	2-3 pm	3-4 pm	4-5 pm	5-6 pm	6-7 pm	7-8 pm	8-9 pm	9-10 pm	10-11 pm	11-12 pm	12-1 am

Proceed

Checkout Form Page:



The screenshot shows a web browser window titled "Confirm Booking" with the URL "127.0.0.1:8000/turfBilling". The page displays "Checkout form". It is divided into two main sections: "Billing address" and "Your cart".

Billing address

UserName: dev

Email: dev96@gmail.com

Selected Date: 2021-10-23

Current Date: 2021-10-21

Booked Slots: 9-10 am, 10-11 am

Continue to checkout

Your cart

Total (Rs): 1400

Order History:

My Bookings:

Booking Details:		Booking Date:	2021-10-12
Name:	dev	Selected Date:	2021-10-13
Email:	dev96@gmail.com	Time Slot:	['9-10 am', '10-11 am']
Booking Time:	13:46:53	Total Amount:	Rs. 1400

Booking Details:		Booking Date:	2021-10-21
Name:	dev	Selected Date:	2021-10-23
Email:	dev96@gmail.com	Time Slot:	['9-10 am', '10-11 am']
Booking Time:	12:26:03	Total Amount:	Rs. 1400

[Cancel](#)

About Us page:

AboutUs

SurfTheTurf Home BookNow AboutUs ContactUs SignUp Login

Get Set Go!!

Our mission is to make it easier for everyone to play sports and increase the utilisation of facilities.

Advance reservation and online booking

book your turfs in advance by using our website

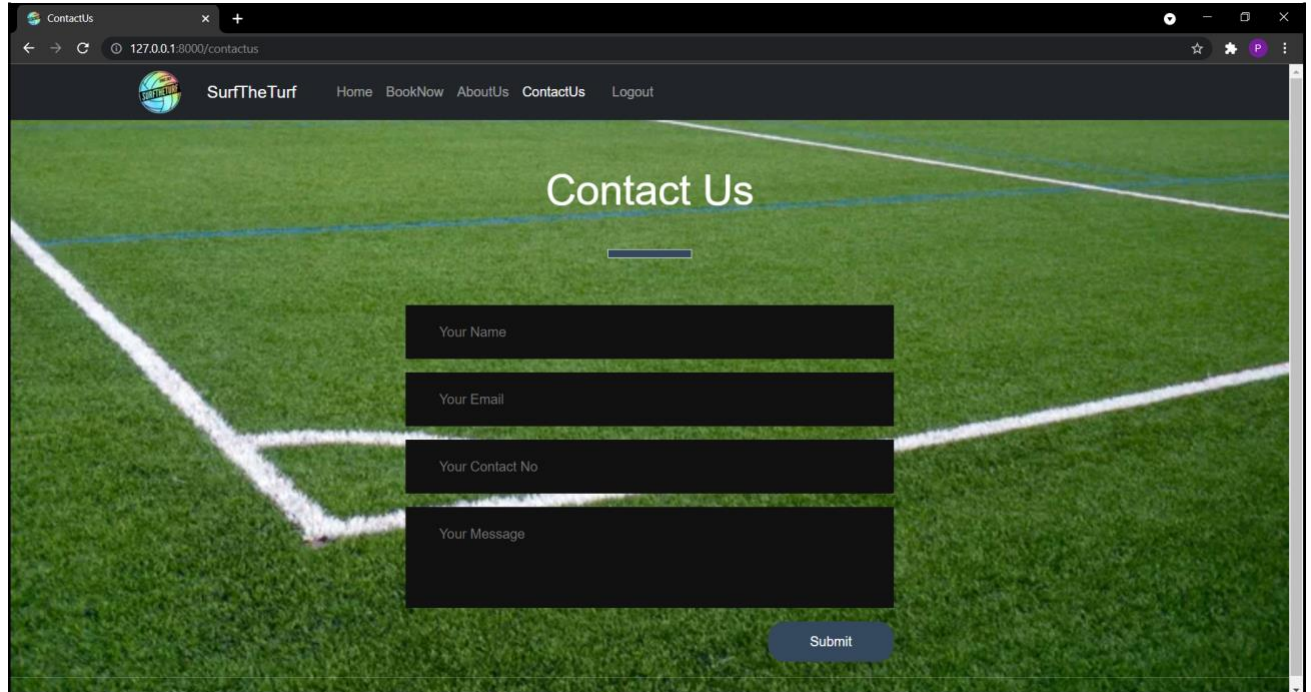
Real time alerts and notification

You will get your booking and cancellation status via sms and email

Rate and review

You can rate the turfs/playground you are playing at

Contact Us Page:



Challenges & Solutions

❑ Time Constraints:

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

❑ 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.

❑ Database Schema Flexibility:

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

❑ 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.

Future Improvements

- **Admin Dashboard:**
Build a dedicated dashboard for venue managers to monitor bookings and manage resources efficiently.
- **Payment Integration:**
Add a secure payment gateway to allow users to complete their bookings with online payments.
- **User Feedback System:**
Implement a rating and feedback system to gather user insights and improve the service quality.
- **Improving Scalability:**
Introduce microservices architecture to separate key functionalities like notifications and user management, allowing the system to scale as the user base grows.

References

- 1.Dinesh A. Pol, Piyush V. Patil, Rahul Shinde, Rohan Dange “ Online Ground Booking System using Android Mobile Application” International Journal for Scientific Research & Development Vol. 7, Issue 10, 2019.(Accessed: July 23, 2021)
- 2.AvailableOnline:<https://www.fatbit.com/fab/category/web-based-business-ideas/> (Accessed: July 24, 2021)
- 3.AvailableOnline:<https://softensy.com/how-to-create-payment-gateway-and-become-a-payment-service-provider/>(Accessed: July 25, 2021)

