



Project Name: Ground Booking System
Branch C-DAC March-2023

Documentation On

“GROUND BOOKING SYSTEM”
C-DAC MARCH 2023

Guided By: Shrinivas Kartik Sir

Submitted By :
Group No: 03

- | | |
|----------------------|--------------|
| • Dhanashri Bhalsing | 230350230023 |
| • Deepak Shukla | 230350320027 |
| • Ekta Mishra | 230350320029 |
| • Rohit Gaikwad | 230350320031 |
| • Sanchayani Gaikwad | 230350320032 |
| • Kedar Garud | 230350320033 |

Table of Contents

1. Introduction.....	4
1.1 Document Purpose.....	4
1.2 Project Background.....	4
1.3 Aim & Objectives.....	4
2. Business Requirements Overview.....	5
3.Functional Requirements.....	6
3.1 Customer Module.....	6
3.2 Owner Module.....	6
3.3 Admin Module.....	6
4. Non-Functional Requirement.....	7
5. Use Case Diagram.....	8
5.1 Admin.....	9
5.2 Customer.....	10
5.3 Owner.....	11
6. Database Design.....	12
1 Login.....	12
2 Admin.....	12
3 Owner.....	13
4 Customer.....	13
5 Ground.....	13
6 Booking.....	13
7 Sports.....	13
8 Role.....	13
9 Payment.....	14
7. E-R Diagram.....	14
8. Snapshots.....	15
9. Conclusion.....	20

List of Figures

Use Case Diagrams..... 17

Fig 1 Admin..... 8

Fig 2 Customer..... 9

Fig 3 Owner..... 10

Fig 4 ER Diagram..... 14

1. Introduction:

1.1 Document Purpose:

This document communicates the business requirements and scope for developing Ground Booking System. The scope of this document is to define the functional and non functional requirements, business rules and other constraints requirements.

1.2 Project Background:

Sports have an immense impact on a person's daily life and health. They do not just give you an interesting routine but also a healthy body.

In Metropolitan Cities it's very difficult to get the grounds/courts on our desired time. And many people are unaware of the location and the contact.

So here we have "Ground Booking System" anyone can book the ground/courts based on their desired locality and time slot easily from Our website.

1.3 Aim & Objectives:

The main objective of this system is building a website which improves user accessibility and time flexibility to play sports no matter where they are located. Basically we are providing features like search sports venues, book sports venues, cancel sports venues, etc. The key benefits of ground booking system website is the user can find sports grounds as per his requirements any time at any moment. It provides all information and services of all the sports venues. The ground booking system is enabled to manage the booking of the owners and customer.

2. Business Requirements Overview:

- Ground Booking System is the public web application
- Ground Booking System will be available in different cities.
- There are mainly two types of users. One is the Customer and other is the Owner.
- Customers can search for different grounds available and view their bookings.
- Owner can add different grounds for the user to view and also book grounds if required.
- Ground Booking System will be able to connect owner and customer efficiently.
- Ground Booking System will be maintained by Administrator.

3. Functional Requirements Overview:

Ground Booking System consists of four modules described as below.

1. Customer Module
2. Owner Module
3. Admin Module

3.1 Customer Module

- The Customer can register and login.
 - The Customer can search and book the Sports venue.
 - The Customer can view their bookings.
 - The Customer can update and cancel the bookings.
 - Customer will pay bill.
 - Customer can give rating.
-

3.2 Owner Module

- o The owner can register and login.
- o The owner can add , update ,remove the ground/court details.
- o The owner can view the bookings.
- o The owner can delete the account.

3.3 Admin Module

- o The admin can view user details
- o The admin can view owner details
- o The admin will authenticate the Customer and owner.
- o The admin can remove customer and owner.

4. Non-Functional Requirement:

4.1.1 Performance Requirements

The system should store all the database records of each user, owner and admin properly and the application should be available for use 24*7 through the server.

The application should be user friendly with a proper user interface which makes it easy for the user to understand. All the options should be present in properly accessible places for user convenience.

Admin staff personnel should be properly trained to operate the application so provided. user details, owner details and ground/courts details records are to be backed up securely across databaseservers. In case database is hacked by someone and data is deleted a backup server should be present for such purpose.

4.1.2 Safety Requirements

All login ids and passwords of the Admin, User, Owner should be protected for privacy using whatever constraints required in the database or the application. The system requires the individual to acknowledge the person making use of the phone. Any

adjustments like insert, erase, update, etc. for the data source can be integrated promptly as well as executed only by Admin. The admin can consider as well as alter any kind of information in this System.

- The website should use professional design, look and feel and color scheme.
 - Users will have no limitations for accessing the application through Internet. The portal being an internet application, it is difficult specify exact number of visitor or users. Hence we will target the system to support between 5 and 10 million users on launch of phase 1.
 - Being a public website, the site must follow general usability guidelines for menus, navigation, colors, links and other actions provided on the screens.
 - The system should be designed in such a manner that user will be able to complete tasks in minimum number of steps.
-

5. Use-Case Diagram

5.1 Admin:

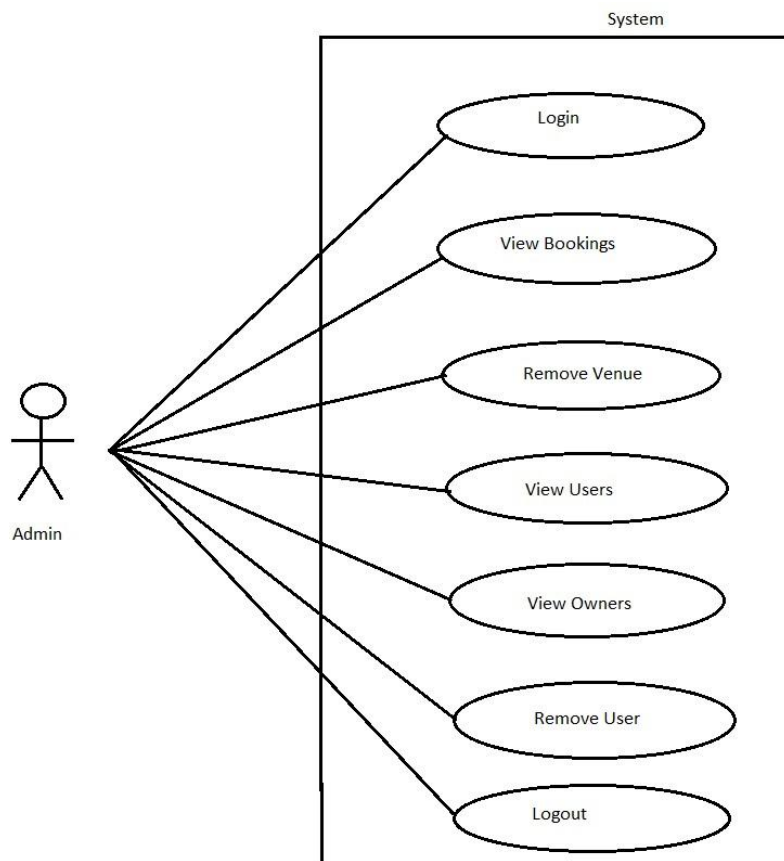


Fig. Use-Case Diagram for Admin

5.2 Customer:

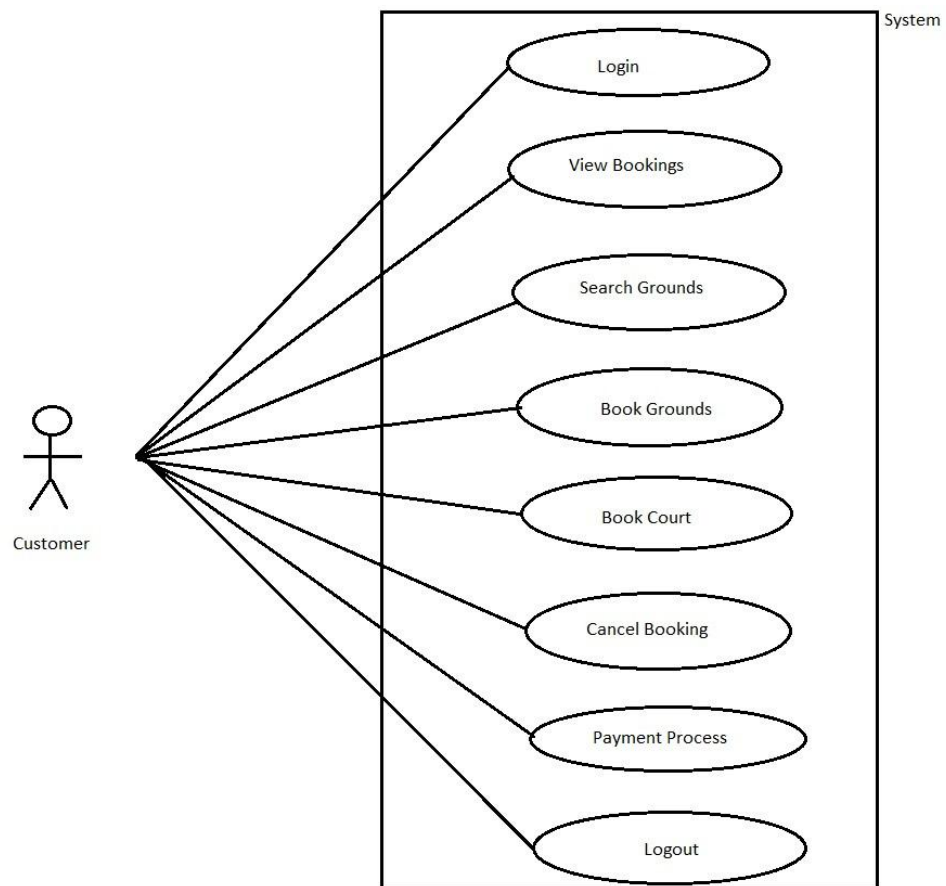


Fig. Use-Case Diagram for Customer

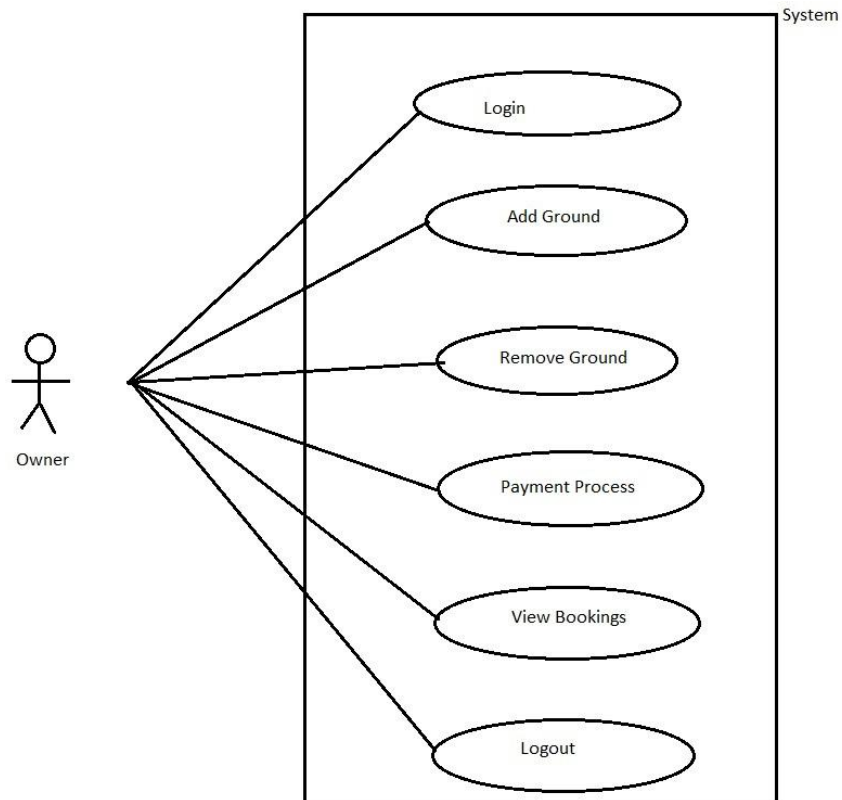
5.3 Owner:

Fig. Use-Case Diagram for Owner

6. Database Design:

1) user

Field	Type	Null	Key	Default	Description
userid	Integer	No	Primary key	Null	User ID
name	Varchar(45)	No		Null	User Name
password	Varchar(45)	No	Unique	Null	User Password
email	Varchar(45)	No	Unique	Null	Email ID Of user
Role_id	Integer	No		Null	Account type id
mobile	Integer	No		Null	Contact No. Of user
city	Varchar(100)	No		Null	User city
status	Varchar(100)	No		Null	User status

2) booking

Field	Type	Null	Key	Default	Description
booking_id	Integer	No	Primary key	Null	booking ID
amount	Varchar(45)	No		Null	Booking amount
date	Varchar(45)	No		Null	date
ground_id	Integer	No	Foreign key	Null	Ground id
Hall_id	Integer	No		Null	Hall id
Owner_id	Varchar(100)	No		Null	Ground owners id
Timeslot_id	Integer	No	Foreign key	Null	reference to timeslots (slotid)
grounddetails_groundid	Integer	No	Foreign key	Null	reference to ground_details (groundid)
Halldetails_hallid	Integer	No	Foreign key	Null	reference to Hall_details (o hallid id)
User_id	Integer	No	Foreign key	Null	reference to User (userid)
Timeslots_slot_id	Integer	No	Foreign key	Null	reference to Timeslots (slot_id)

3) timeslots

Field	Type	Null	Key	Default	Description
slotid	Integer	No	Primary key	Null	timeslots ID
ground_id	Integer	No	Foreign key	Null	reference to ground_details (groundid)
Hall_id	Integer	No	Foreign key	Null	reference to Hall_details (o hallid id)
timeslot	Varchar(45)	No		Null	Required timeslots
status	Varchar(45)				Booking status

4] ground details

Field	Type	Null	Key	Default	Description
Ground_id	Integer	No	Primary key	Null	Ground id
amount	Varchar(30)	No		Null	Booking amount
city	Varchar(45)	No		Null	Ground city
ground_image	Varchar(50)	No		Null	Ground image
Ground_name	Varchar(50)	No		Null	Ground name
location	Varchar(90)	No		Null	Ground location
ownerid	Integer	No	Foreign key	Null	reference to user(userid)
Sports_name	Varchar(50)	No		Null	Ground played sports

5] hall details

Field	Type	Null	Key	Default	Description
hall_id	Integer	No	Primary key	Null	hall id
amount	Varchar(30)	No		Null	Booking amount
city	Varchar(45)	No		Null	hall city
hall_image	Varchar(50)	No		Null	hall image
hall_name	Varchar(50)	No		Null	hall name
location	Varchar(90)	No		Null	hall location
ownerid	Integer	No	Foreign key	Null	reference to user(userid)
Sports_name	Varchar(50)	No		Null	hall played sports

5] ground details timeslot

Field	Type	Null	Key	Default	Description
Ground details_groundid	Integer	No		Null	reference to ground_details (groundid)
Timeslots_slot_id	Varchar(10)	No	unique	Null	reference to Timeslots (slot_id)

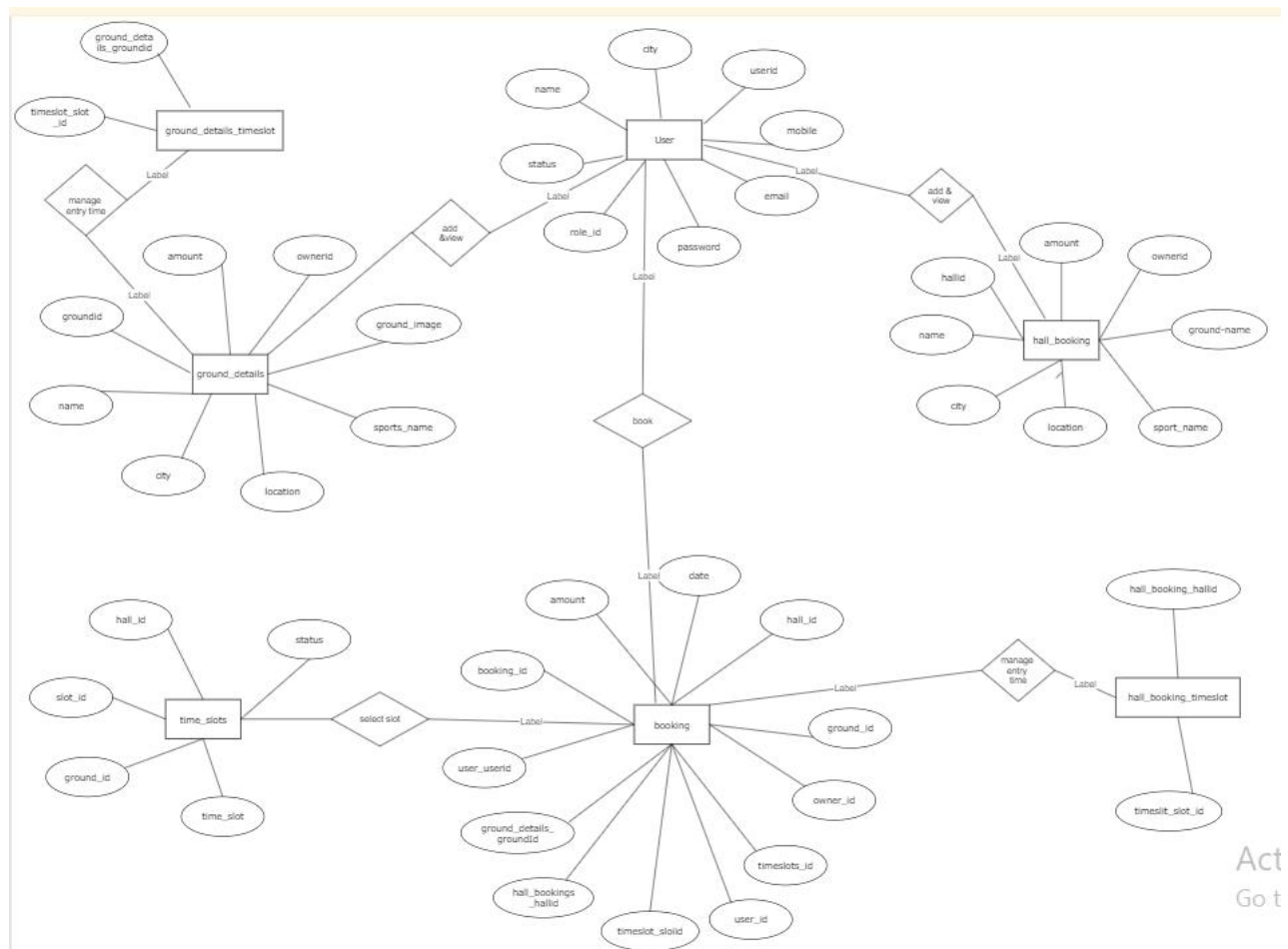
6] hall details timeslot

Field	Type	Null	Key	Default	Description
hall_details_hallid	Integer	No		Null	reference to hall_details (hallid)
Timeslots_slot_id	Varchar(10)	No	unique	Null	reference to Timeslots (slot_id)

7) Tbl_Payment

Field	Type	Null	Key	Default	Description
tid	Integer	No	Primary key	Null	Transaction ID
SenderAccNo	Integer	No		Null	Sender Account Number
ReceiverAccNo	Integer	No		Null	Receiver Account Number
Amount	Double	No		Null	Amount To Be Transfer
DateTime	DateTime	No		Null	Date and Time OF Transaction
bookingid	Integer	No	Foreign key	Null	References to Booking (bid)

7. ER-Diagram:

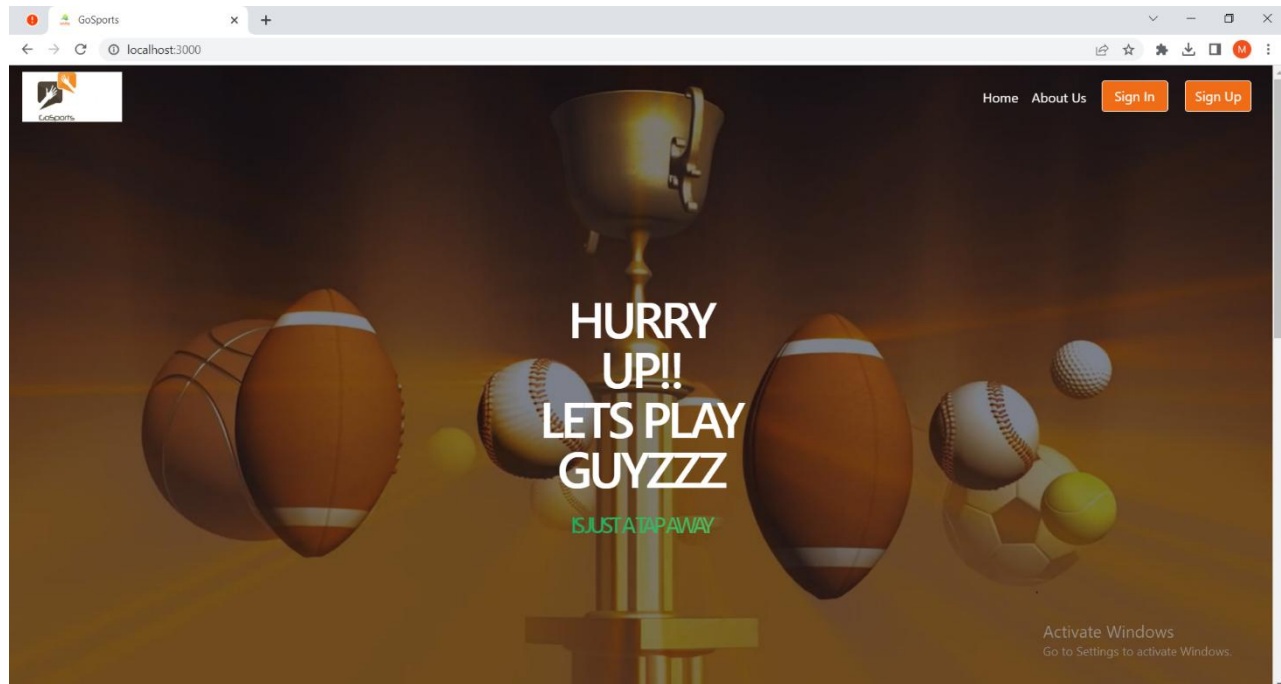


E-R diagram shows database of Ground Booking System

8. Snapshots:

8.1 Home Page:

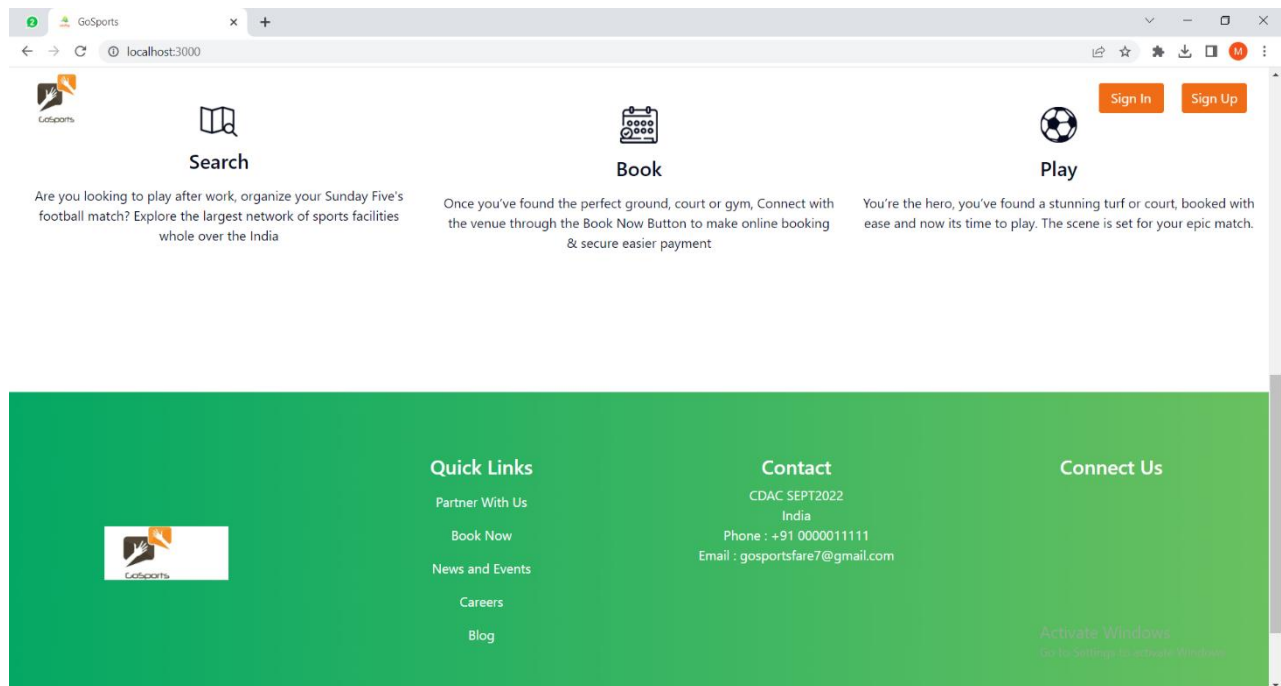
Following snapshot shows the Home page for Ground Booking System.



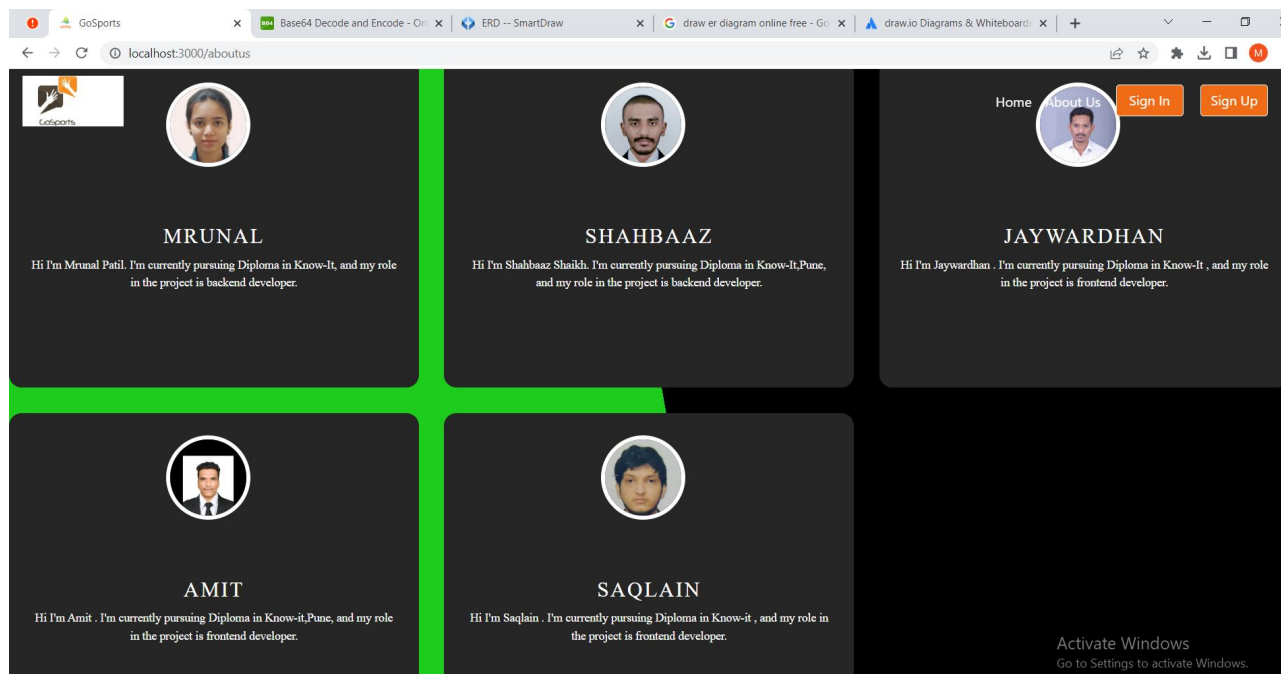
This page contains following controls

- Home
- Contact
- About
- Login Button

8.2 Contact Page

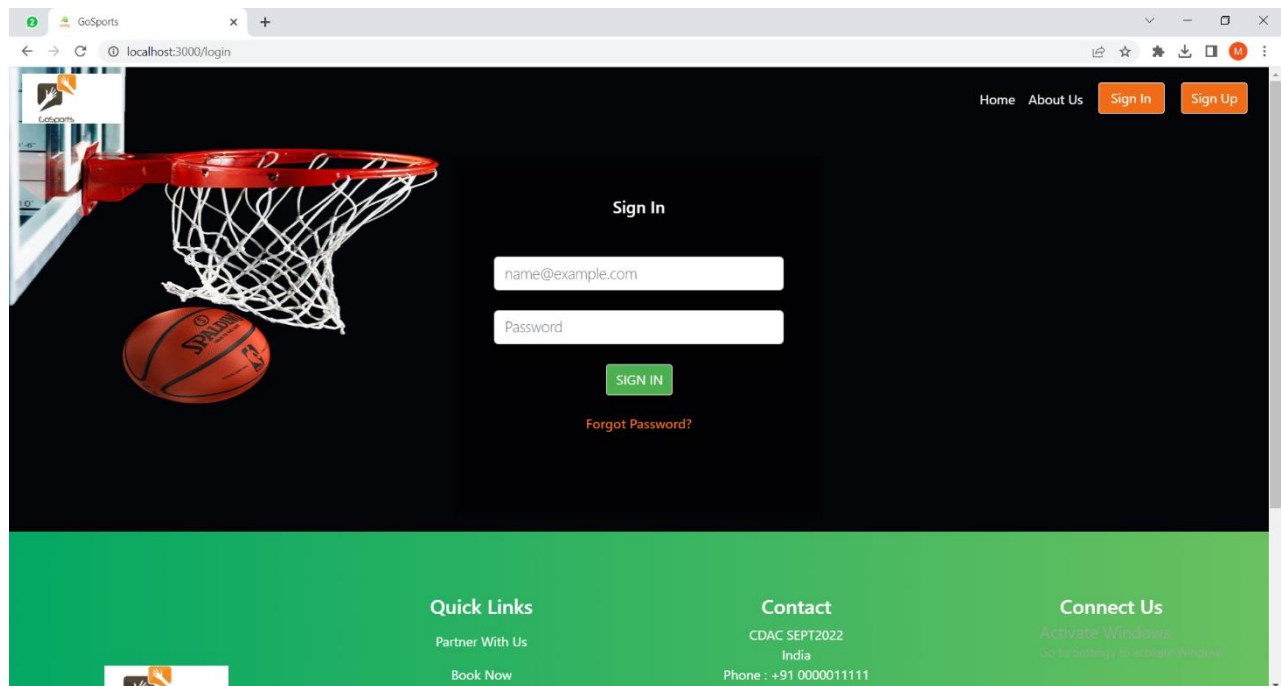


8.3 About Page

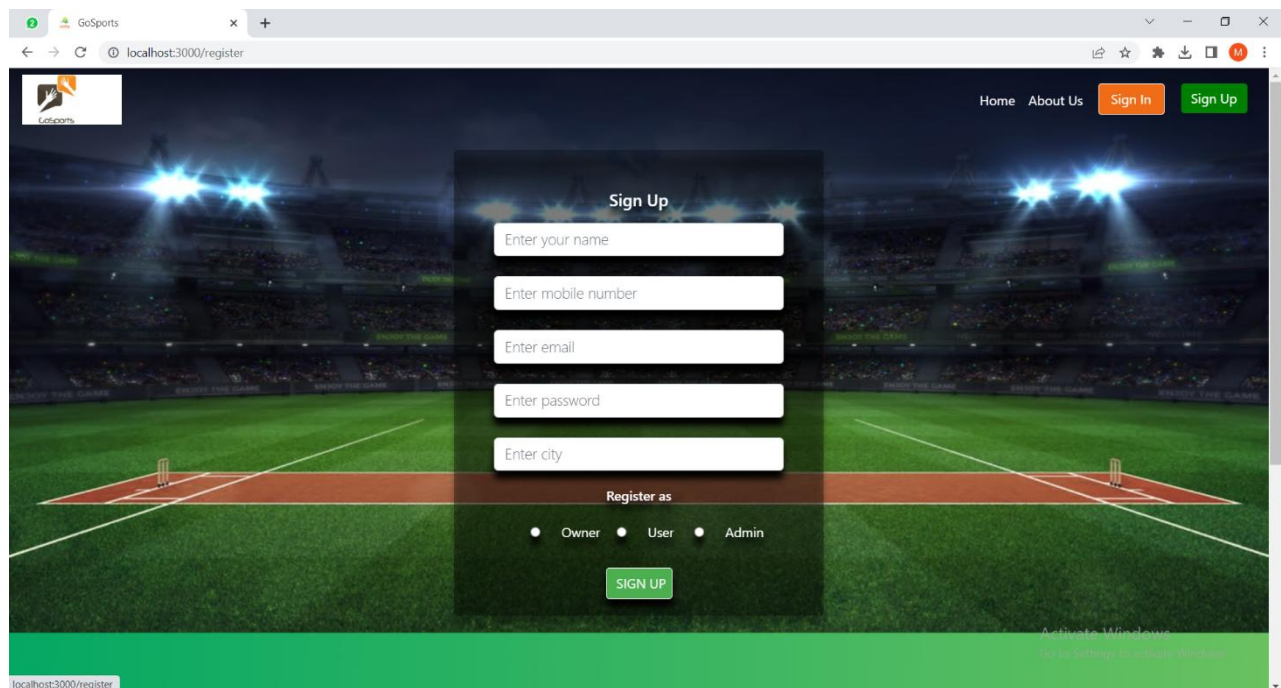


8.4 Login Page

Following snapshot shows the Login page for Ground Booking System

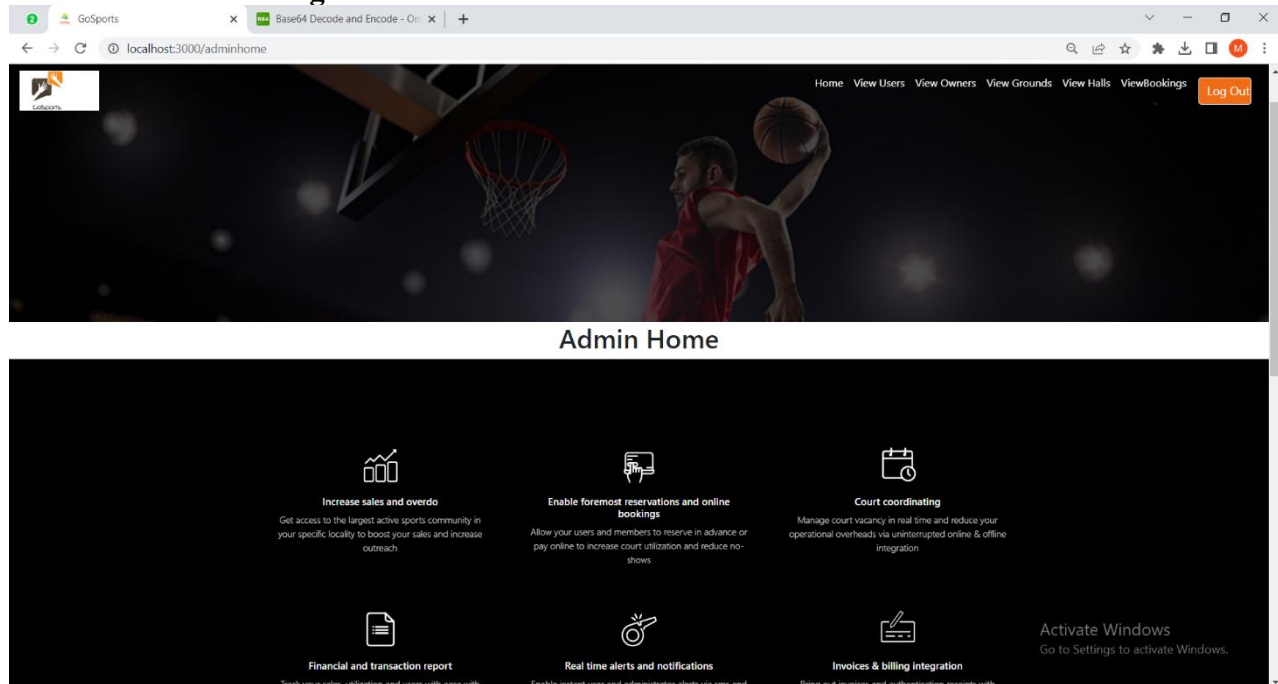


8.5 Registration Page

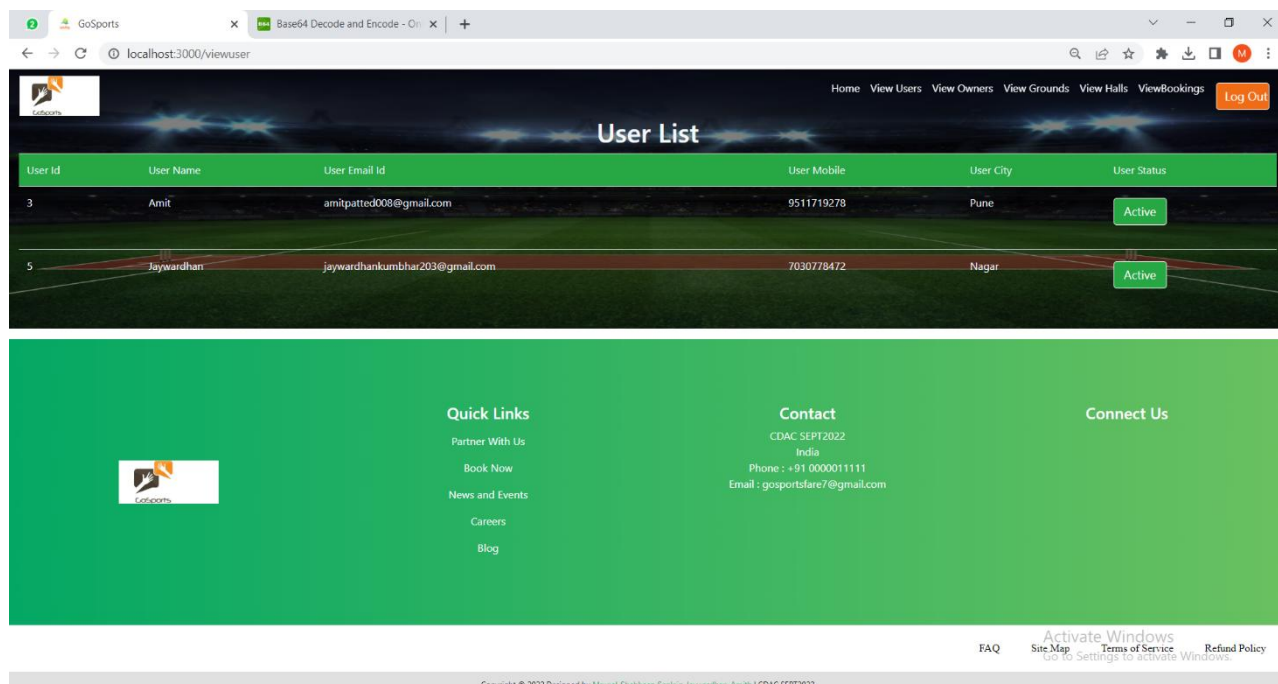


8.5 Admin

8.5.1 Admin Home Page



8.5.2 All Customers List



8.5.3 All Owners List

Owner List

User Id	User Name	User Email Id	User Mobile	User City	User Status
1	Mrunal	patilmrunal28@gmail.com	7709780411	Pune	Active
6	Mrunal Patil	patilmrunal28@gmail.com	7709780411	Pune	Active

Quick Links

- Partner With Us
- Book Now
- News and Events
- Careers
- Blog

Contact

CDAC SEPT2022
India
Phone : +91 0000011111
Email : gosportsfare7@gmail.com

Connect Us

FAQ Site Map Terms of Service Refund Policy
Go to Settings to activate Windows

localhost:3000/viewowner Copyright © 2022.Designed by Mrunal-Shahbaz-Saqim-Jayvardham-Amith | CDAC SEPT2022

8.5.4 All grounds added

Vangaskar Cricket Academy

Address : Chinchwad City : Pune Rent per time slots:4000

Quick Links

- Partner With Us
- Book Now
- News and Events

Contact

CDAC SEPT2022
India
Phone : +91 0000011111
Email : gosportsfare7@gmail.com

Connect Us

Activate Windows
Go to Settings to activate Windows

localhost:3000/viewground_admin

8.5.5 All Bookings

GoSports Base64 Decode and Encode - On localhost:3000/viewbooking_admin

Home View Users View Owners View Grounds View Halls ViewBookings Log Out

New Booking

User Name	Ground Name	Date	Time Slot	Amount	Mobile
Jaywardhan	Vangaskar Cricket Academy	2023-03-07	12 Pm to 3 Pm	4000	7030778472

Quick Links

- Partner With Us
- Book Now
- News and Events
- Careers
- Blog

Contact

CDAC SEPT2022
India
Phone : +91 0000011111
Email : gosportsfare7@gmail.com

Connect Us

FAQ Site Map Terms of Service Refund Policy

Copyright © 2022 Designed by Mrunal-Shahbaaz-Sanjain-Jaywardhan-Arushi | CDAC SEPT2022

8.6 Owner

8.6.1 Owner Home Page

GoSports Base64 Decode and Encode - On localhost:3000/ownerhome

Home Add Grounds Add Halls My Activities View Bookings Log Out

Welcome : Mrunal Patil

Owner Portal

Increase sales and overdo

Get access to the largest active sports community in your specific locality to boost your sales and increase your revenue.

Enable foremost reservations and online bookings

Allow your users and members to reserve in advance or pay online to increase court utilization and reduce no-shows.

Court coordinating

Manage court vacancy in real time and reduce your operational overheads via uninterrupted online & offline reservations.

Activate Windows
Go to Settings to activate Windows.

8.6.2 Owner Add Ground

The screenshot shows the 'Add Ground Information' form in the GoSports application. The form is set against a background image of a cricket stadium at night. The form fields include:

- Choose File**: A button to upload a ground image.
- Enter ground name**: A text input field.
- Enter city**: A text input field.
- Enter full address**: A text input field.
- Enter ground rent**: A text input field.
- Enter Sport name**: A text input field.
- TimeSlot**: A section with three radio buttons: **9 Am to 12 Am**, **12 Pm to 3 Pm**, and **3 Pm to 6 Pm**.
- ADD GROUND**: An orange button to submit the form.

At the bottom right, there is a message: **Activate Windows** Go to Settings to activate Windows.

8.6.3 Owner activities

The screenshot shows the 'View Ground Downer' page in the GoSports application. The page displays the details of a ground named **Vangaskar Cricket Academy**. The details include:

- Address**: Chinchwad
- City**: Pune
- Rent per time slots**: 4000
- Time slots**: A section with three radio buttons: **9 Am to 12 Am**, **12 Pm to 3 Pm**, and **3 Pm to 6 Pm**.
- Update**: A green button to update the ground details.
- Delete**: A green button to delete the ground.

8.6.3 Owner see bookings

GoSports | Base64 Decode and Encode - On | Untitled Document — SmartDraw | +

localhost:3000/viewbooking_owner

Home Add Grounds Add Halls My Activities View Bookings Log Out

Bookings

User Name	Ground Name	Date	Time Slot	Amount	Mobile
Jaywardhan	Vangaskar Cricket Academy	2023-03-07	12 Pm to 3 Pm	4000	7030778472

Quick Links

- Partner With Us
- Book Now
- News and Events
- Careers
- Blog

Contact

CDAC SEPT2022
India
Phone : +91 0000011111
Email : gosportsfare7@gmail.com

Connect Us

FAQ Site Map Terms of Service Refund Policy

Copyright © 2022.Designed by Murali Shahbaz-Saqain-Jaywardhan-Amith | CDAC SEPT2022

8.7 Customer

8.7.1 Customer Home Page

GoSports | Base64 Decode and Encode - On | Untitled Document — SmartDraw | +

localhost:3000/userhome

Home View&Book MyBookings Log Out

Welcome : Jaywardhan

User Portal

Increase sales and overdo
Get access to the largest active sports community in your specific locality to boost your sales and increase outreach

Enable foremost reservations and online bookings
Allow your users and members to reserve in advance or pay online to increase court utilization and reduce no-shows

Court coordinating
Manage court vacancy in real time and reduce your operational overheads via uninterrupted online & offline integration

Activate Windows
Go to Settings to activate Windows.

8.7.2 Customer Book Ground

ground

Vangaskar Cricket Academy

Address : Chinchwad City : Pune

Sport: cricket Rent per time slots:4000

03/19/2023

9 Am to 12 Am
12 Pm to 3 Pm
3 Pm to 6 Pm

Book Now

Quick Links

- Partner With Us
- Book Now
- News and Events
- Careers
- Blog

Contact

CDAC SEPT2022
India
Phone : +91 0000011111
Email : gosportsfare7@gmail.com

Connect Us

Activate Windows

8.7.3 Customer See Their Bookings

My Bookings

User Name	Ground Name	Date	Time Slot	Amount	Mobile	Action
Jaywardhan	Vangaskar Cricket Academy	2023-03-07	12 Pm to 3 Pm	4000	7030778472	Cancel

Quick Links

- Partner With Us
- Book Now
- News and Events
- Careers
- Blog

Contact

CDAC SEPT2022
India
Phone : +91 0000011111
Email : gosportsfare7@gmail.com

Connect Us

FAQ Site Map Terms of Service Refund Policy

Copyright © 2022.Designed by Murali-Shahbaz-Saqim-Jaywardhan-Amith | CDAC SEPT2022

9. CONCLUSION AND FUTURE SCOPE

Ground Booking System provides platform to get connected with owners and customers efficiently.

Our System provides a very user-friendly platform where customers can easily Book the grounds As per their need and time required. They can also cancel the bookings if they want to cancel the bookings.

Many sports venues are opened for free. But because the usage of venues can't be known good, people often encounter that students of athletics are in the class or there is no place for sports when go to the venues directly.

So an online booking system for sports venues is necessary. The ground booking system should provide humanized interface and complete functions. .
