

# **Online Turf Booking System**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**SKILL ENHANCEMENT PROJECT**

**PROJECT STUDENT**

**M.PURNA SAITEJA**

**(43110541)**

# AGENDA

- Abstract
- Existing System
- Proposed System
- Advantages
- Disadvantages
- Hardware Requirements
- Software Requirements
- Modules
- Module Description
- Sample Output
- Conclusion

# Abstract

- The Online Turf Booking System is a web-based application designed to automate and simplify booking sports turfs (e.g., football, cricket, tennis). It provides real-time slot availability, secure booking, and online payment options, reducing manual effort and booking conflicts. The system facilitates efficient turf management for owners and convenient turf reservation for users, enhancing user experience and operational efficiency.

# Existing System

- Currently, turf bookings are mostly manual, requiring users to call or visit the turf physically to check availability and book. This leads to communication delays, double bookings, manual record-keeping errors, and lack of transparency and secure payments. These processes limit accessibility and increase the administrative burden.

# Proposed System

- The proposed system offers an online platform with real-time slot availability checks, user registration, secure payment gateway integration, and digital booking confirmation with QR codes. Turf owners can manage turfs, slots, and bookings efficiently using an admin dashboard. Notifications and booking history improve user interaction and service quality. This streamlines operations and improves booking accuracy.

# Advantages

- Real-time slot availability preventing double bookings.
- Convenient online booking and payment from anywhere.
- Automated booking confirmations and reminders.
- Efficient turf and booking management for owners.
- Reduced manual errors and operational costs.
- Increased accessibility and customer satisfaction.

# Disadvantages

- Requires stable internet connectivity.
- Initial setup and maintenance cost.
- Users unfamiliar with technology may face a learning curve.
- Dependence on external payment gateways.

# Hardware Requirements

- Client devices: PCs, laptops, smartphones with internet access.
- Server: Web server capable of hosting the application.
- Networking equipment and internet connectivity for continuous access.



# Software Requirements

- Frontend: HTML/CSS/JSP (Java Server Pages)/Bootstrap for user interface.
- Backend: Java / Java Servlets/ PHP (any RESTful API framework).
- Database: MySQL for storing user, booking and turf data.
- Payment Method: QR-based/manual payment integration.
- Web server (Apache, Nginx, or cloud services).
- Development environment: Eclipse IDE or Visual Studio Code.

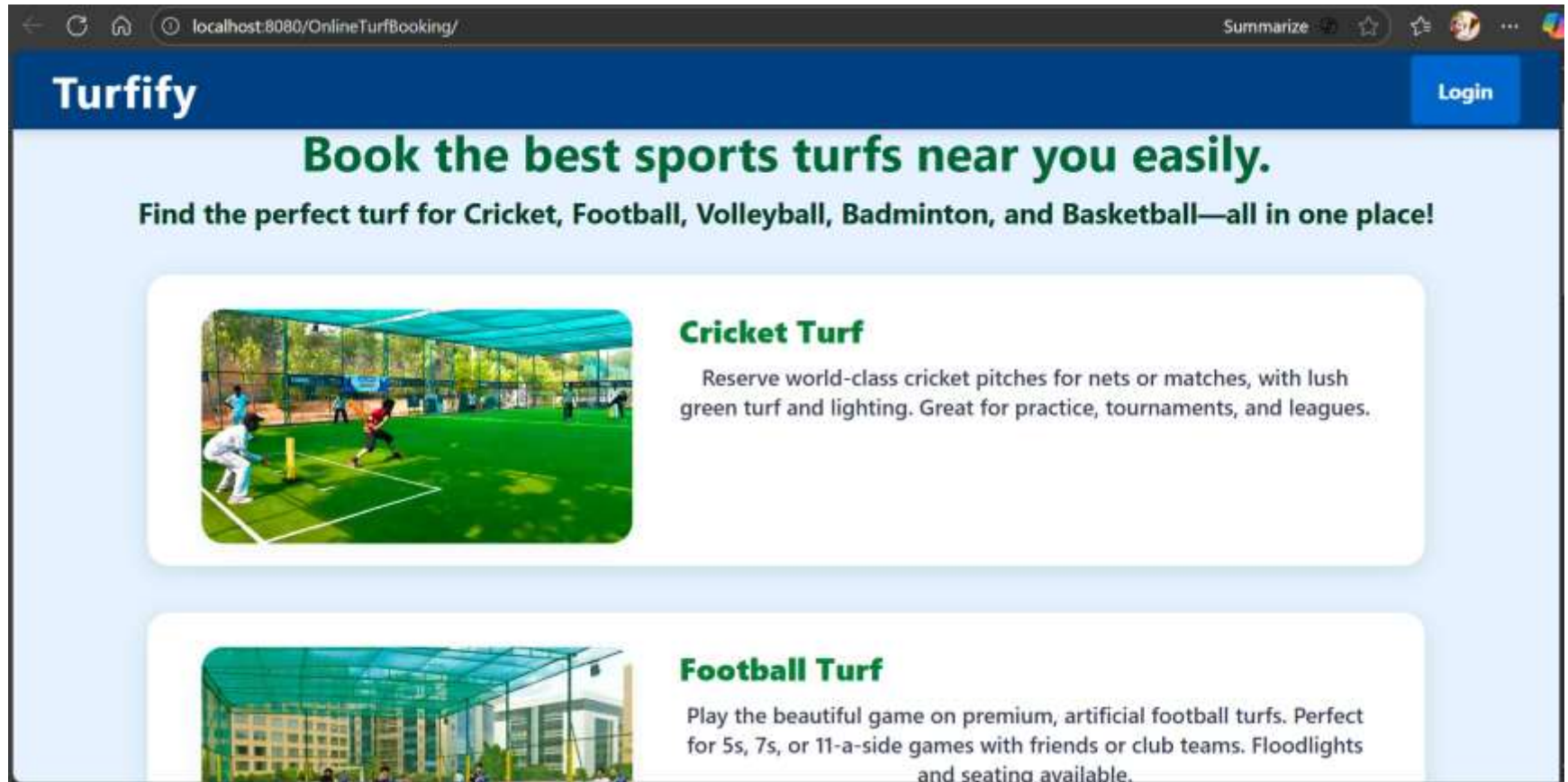
# Modules

Module	Description
User	Registration, browsing turfs, booking slots, payment processing, viewing booking history.
Admin	Manage turf listings, approve bookings, oversee users and transactions, manage offers and schedules.

# Module Description

- **User Module:**  
Enables users to create accounts, view available turfs and slots, book preferred slots, pay online, and track booking history.
- **Admin Module:**  
Admin manages all system aspects like user management, turf registration, approval of bookings, payment management, and analytics.

# Sample Output



# Sample Output

```
Command Prompt - mysql -u X + v

mysql> use onlineturfbookingdb;
Database changed
mysql> show tables;
+-----+
| Tables_in_onlineturfbookingdb |
+-----+
| admin                          |
| bookings                      |
| turfs                         |
| users                         |
+-----+
4 rows in set (0.02 sec)

mysql> Select * from admin;
+-----+-----+-----+
| admin_id | username | password |
+-----+-----+-----+
| 1        | admin   | admin123 |
+-----+-----+-----+
1 row in set (0.00 sec)
```

```
Command Prompt - mysql -u X + v

mysql> select * from turfs;
+-----+-----+-----+-----+-----+-----+
| turf_id | turf_name | location | turf_type | price_per_hour | availability |
+-----+-----+-----+-----+-----+-----+
| 1       | Victory Sports Arena | Chennai | Football | 600.00 | 1 |
| 2       | Green Field | Chennai | Cricket | 800.00 | 1 |
| 3       | Green Field | chennai | Football | 550.00 | 1 |
| 4       | Pickle's Arena | Chennai,Tamilnadu | Pickle Ball | 400.00 | 1 |
| 5       | Victory Sports Arena | Chennai | Football | 600.00 | 1 |
| 6       | Green Field | Chennai | Cricket | 800.00 | 1 |
| 7       | Arena Sports Hub | Bangalore | Football | 750.00 | 1 |
| 8       | StadiumK Cricket | Bangalore | Cricket | 920.00 | 1 |
| 9       | Hyderabad Sports Club | Hyderabad | Football | 500.00 | 1 |
| 10      | Secunderabad Snashers | Hyderabad | Badminton | 300.00 | 1 |
| 11      | Bombay Turf Zone | Mumbai | Football | 550.00 | 1 |
| 12      | Oval Maidan | Mumbai | Cricket | 1200.00 | 1 |
| 13      | Galaxy Turf | Pune | Football | 500.00 | 1 |
| 14      | SuperServe | Pune | Badminton | 250.00 | 1 |
| 15      | Goa Beachside Arena | Goa | Beach Football | 400.00 | 1 |
| 16      | Sunset Sports | Goa | Volleyball | 200.00 | 1 |
| 17      | Falcons Arena | Delhi | Basketball | 450.00 | 1 |
| 18      | Turbo Turf | Delhi | Football | 700.00 | 1 |
| 19      | Eden Gardens | Kolkata | Cricket | 1500.00 | 1 |
| 20      | Hoop Dreams Court | Kolkata | Basketball | 320.00 | 1 |
| 21      | Net Masters | Bangalore | Badminton | 120.00 | 1 |
| 22      | Paradise Playzone | Hyderabad | Volleyball | 200.00 | 1 |
| 23      | Rush Turf | Ahmedabad | Football | 350.00 | 1 |
| 24      | Power Center | Ahmedabad | Basketball | 270.00 | 1 |
| 25      | Rajasthan Runners | Jaipur | Cricket | 770.00 | 1 |
| 26      | High5 Arena | Jaipur | Football | 650.00 | 1 |
| 27      | Smash Court | Lucknow | Badminton | 90.00 | 1 |
| 28      | Blitz Courts | Lucknow | Volleyball | 200.00 | 1 |
```

# Sample Output

Command Prompt - mysql -u x + v

```
mysql> select * from bookings;
```

booking_id	user_id	turf_id	booking_date	time_slot	status	payment_method	transaction_id
1	1	2	2025-10-26	06:00-07:00	Cancelled	NULL	NULL
2	1	3	2025-10-26	06:00-07:00	Cancelled	NULL	NULL
3	4	1	2025-10-26	07:00-08:00	Cancelled	NULL	NULL
4	1	4	2025-10-27	09:00-10:00	Booked	NULL	NULL
5	1	2	2025-10-28	08:00-09:00	Cancelled	NULL	NULL
6	5	49	2025-10-27	06:00-07:00	Booked	NULL	NULL
7	1	1	2025-10-28	06:00-07:00	Cancelled	NULL	NULL
8	6	51	2025-10-28	10:00-11:00	Cancelled	NULL	NULL
9	7	4	2025-10-29	08:00-09:00	Cancelled	NULL	NULL
10	1	5	2025-10-27	09:00-10:00	Booked	NULL	NULL
11	8	2	2025-10-27	08:00-09:00	Cancelled	NULL	NULL
12	1	5	2025-10-27	10:00-11:00	Booked	NULL	NULL

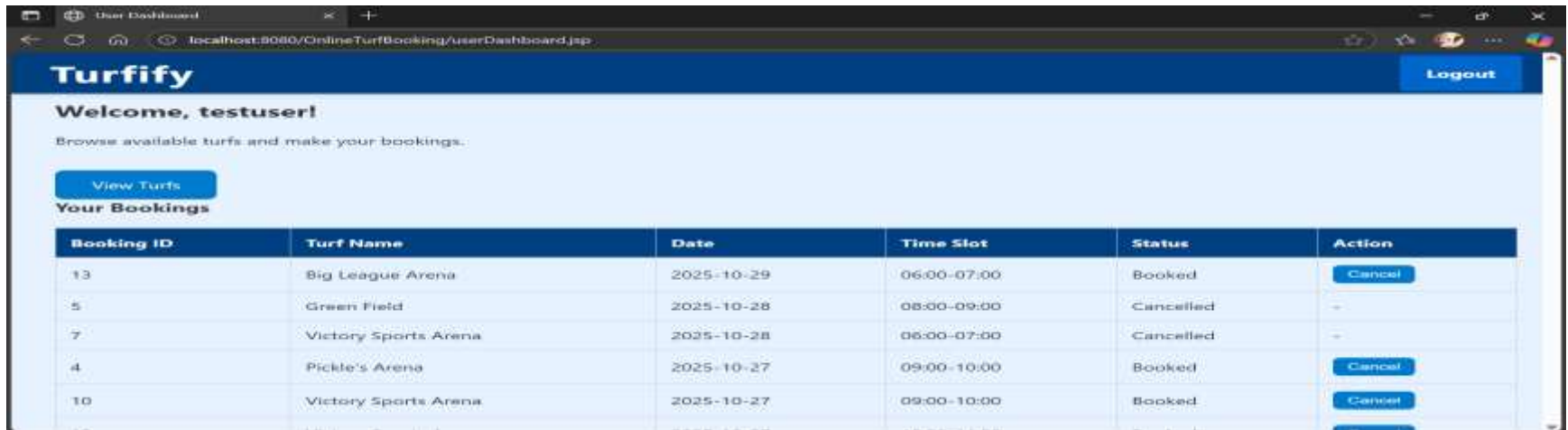
12 rows in set (0.01 sec)

```
mysql> select * from users;
```

user_id	username	password	email	phone
1	testuser	test123	testuser@example.com	9876543210
2	saiii9999	Saiii@9999	saiteja.merla789@gmail.com	7396134013
3	saiii999	123456789	saiteja.merla2005@gmail.com	7396134014
4	saiii	123456789	saiteja.merla789@gmail.com	7396134013
5	linga	Linga@123	linga@gmail.com	7601041559
6	Harshith	Harshith	harshithpydisetty@gmail.com	7416330604
7	demo	Demo@123	demo@gmail.com	7416330604
8	demoo	123456789	demoo@gmail.com	1234567890

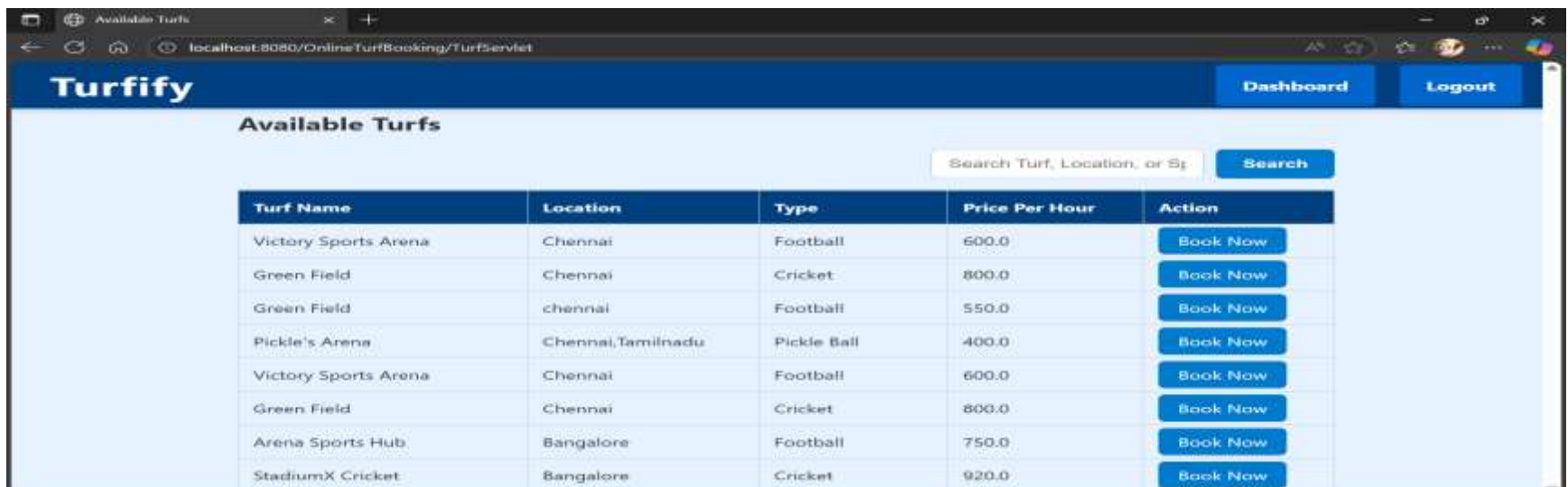
8 rows in set (0.00 sec)

# Sample Output



The screenshot shows the 'User Dashboard' of the Turfify application. The page has a dark blue header with the 'Turfify' logo and a 'Logout' button. Below the header, a welcome message 'Welcome, testuser!' is displayed, followed by the instruction 'Browse available turfs and make your bookings.' and a 'View Turfs' button. The main section is titled 'Your Bookings' and contains a table with the following data:

Booking ID	Turf Name	Date	Time Slot	Status	Action
13	Big League Arena	2025-10-29	06:00-07:00	Booked	<a href="#">Cancel</a>
5	Green Field	2025-10-28	08:00-09:00	Cancelled	-
7	Victory Sports Arena	2025-10-28	08:00-07:00	Cancelled	-
4	Pickle's Arena	2025-10-27	09:00-10:00	Booked	<a href="#">Cancel</a>
10	Victory Sports Arena	2025-10-27	09:00-10:00	Booked	<a href="#">Cancel</a>



The screenshot shows the 'Available Turfs' page of the Turfify application. The page has a dark blue header with the 'Turfify' logo, a 'Dashboard' button, and a 'Logout' button. Below the header, the title 'Available Turfs' is displayed. A search bar with the placeholder text 'Search Turf, Location, or Sport' and a 'Search' button is present. The main section contains a table with the following data:

Turf Name	Location	Type	Price Per Hour	Action
Victory Sports Arena	Chennai	Football	600.0	<a href="#">Book Now</a>
Green Field	Chennai	Cricket	800.0	<a href="#">Book Now</a>
Green Field	chennai	Football	550.0	<a href="#">Book Now</a>
Pickle's Arena	Chennai, Tamilnadu	Pickle Ball	400.0	<a href="#">Book Now</a>
Victory Sports Arena	Chennai	Football	600.0	<a href="#">Book Now</a>
Green Field	Chennai	Cricket	800.0	<a href="#">Book Now</a>
Arena Sports Hub	Bangalore	Football	750.0	<a href="#">Book Now</a>
StadiumX Cricket	Bangalore	Cricket	920.0	<a href="#">Book Now</a>

# Conclusion

- The Online Turf Booking System transforms manual turf reservation processes into a streamlined digital platform, increasing operational efficiency and providing enhanced convenience for users and turf owners. The system reduces booking conflicts, automates payment and confirmation processes, and supports scalable turf management, ultimately improving user satisfaction and business growth.