

JAVA- PROJECT

TURF-EASE



Welcome to Turf Booking app

TurfEase – Real-Time Turf Booking Application

Project Overview

TurfEase is a Java-based, feature-rich application designed to **simplify turf bookings for sports facilities**. It provides a seamless experience for both users and turf managers (admins) by combining a real-time booking system with a modern, user-friendly interface.

With TurfEase, users can:

- Browse **all types of turfs** (football, cricket, badminton, etc.) available for booking.
- Book slots **in real time** with instant availability updates.
- View their **booking history** and manage (cancel/reschedule) bookings easily.
- Opt for **self-booking**, so offline bookings by users are also reflected in the system immediately.

Turf managers (admins) can:

- Manage **their own turf** with full control (multiple admins supported, but each admin manages only one turf).
- View, edit, or cancel bookings for their turf.
- Ensure **real-time slot availability** for all users.

TurfEase is built to simulate a **real-world turf booking app**, providing a professional and fully functional platform for sports enthusiasts and turf owners alike.

Features

User Features:

- **User Registration & Login**
- Browse available turfs by type
- Real-time **slot availability**
- Book, view, or cancel bookings
- Self-booking to reflect offline bookings for others

Admin Features:

- Manage turf availability and booking records

- Edit bookings (change slot/time)
- Cancel bookings
- Full control over their own turf
- Real-time visibility of user bookings
- Self-booking to reflect offline bookings for others

General:

- Multiple admins supported
- Each admin assigned to only one turf
- Fully designed like a **real-world application**
- Seamless UI experience with **image-rich dashboards** for both users and admins

Team Members

- **Hadi** – Project Leader
- **Abhijith** – Backend & Database
- **Maazin** – Frontend & UI
- **Alok** – Testing & Deployment

Tech Stack

- **Java** – Core application development
- **MySQL** – Database for storing turfs, bookings, users, and admins
- **VS Code** – IDE for development
- **GitHub** – Version control and collaboration

Project Phases

1. **Phase 1 & 2:** Design Documents & Requirement Analysis – *Completed*
2. **Phase 3:** Prototype & Core Module Development – *Completed*
3. **Phase 4:** Final Implementation & Testing – *Completed*

Running the Application

To run TurfEase locally:

1. Make sure you have **Java JDK** installed.
2. Open the project in **VS Code** or any Java IDE.
3. Navigate to the `src` folder.
4. Run `Main.java` to start the application.

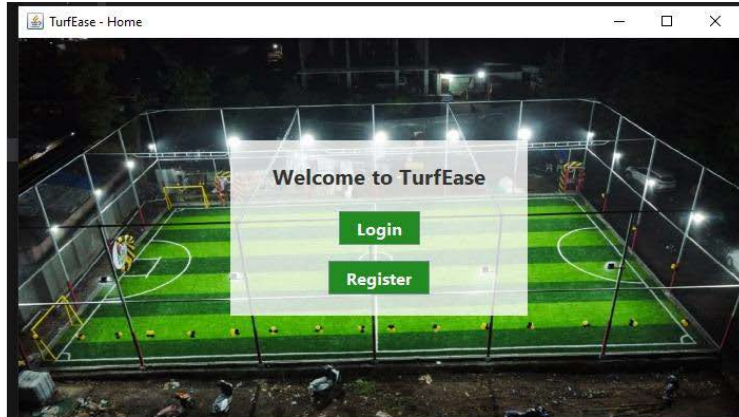
Why TurfEase?

TurfEase is designed to provide a **professional, real-time turf booking solution** that mimics industry-standard applications. It is ideal for sports enthusiasts who want hassle-free bookings and turf managers who need complete control over their facility.

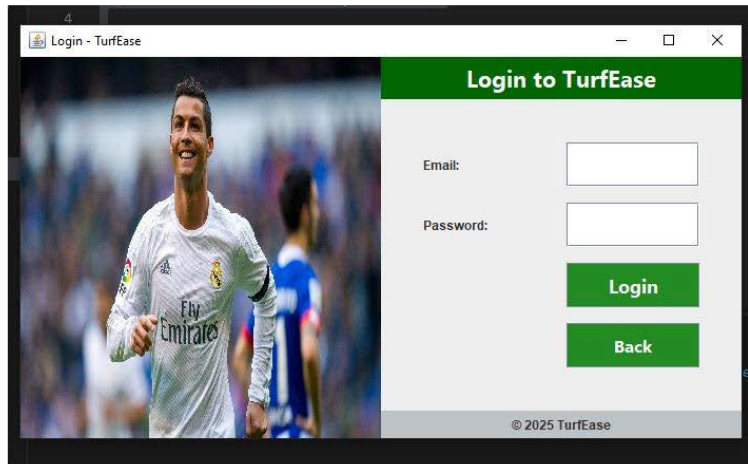
With TurfEase, booking sports slots becomes **easy, efficient, and transparent**, making it a must-have for modern sports facilities.



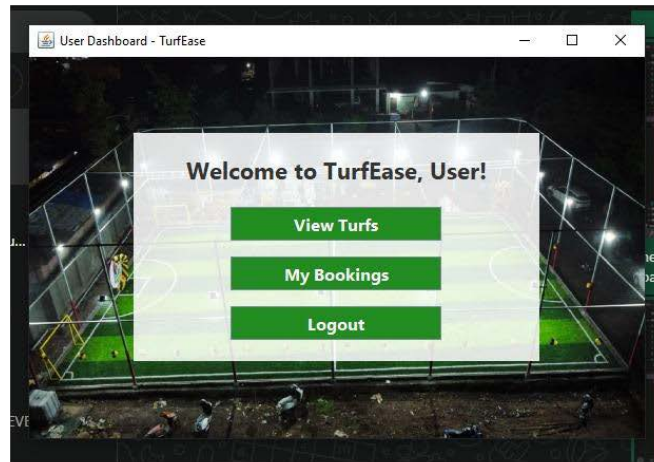
FIRST OPENING PAGE OF APP
//SPLASH SCREEN



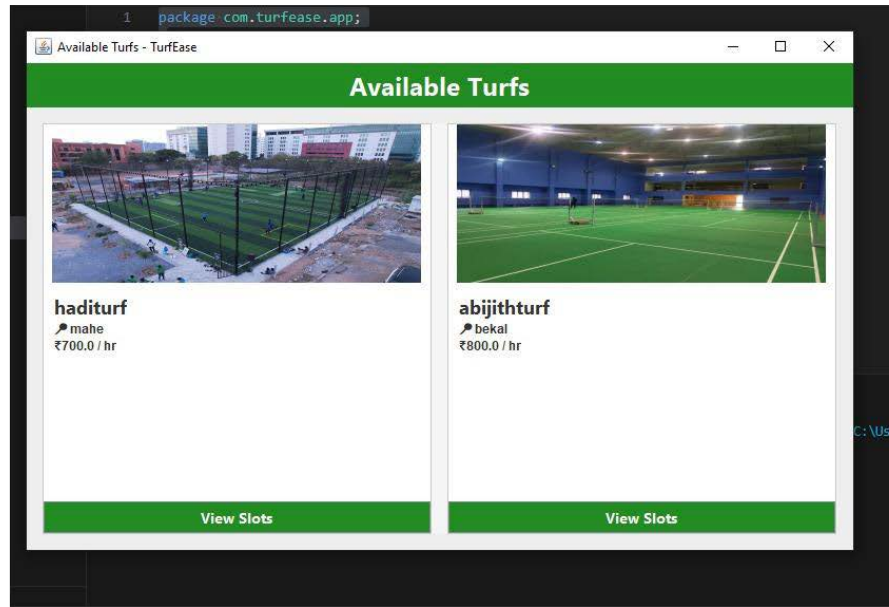
HOME PAGE WHERE WE CAN
LOGIN AND REGISTER



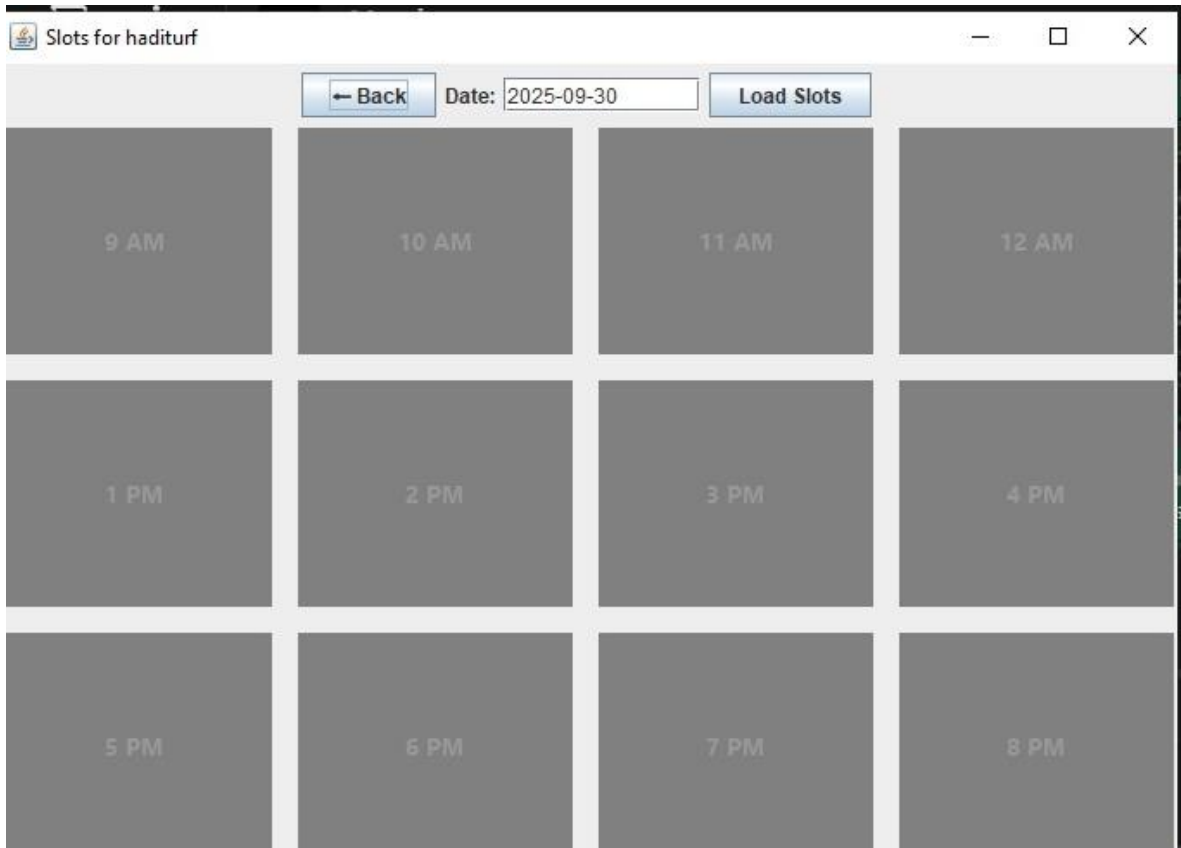
USER CAN LOGIN HERE



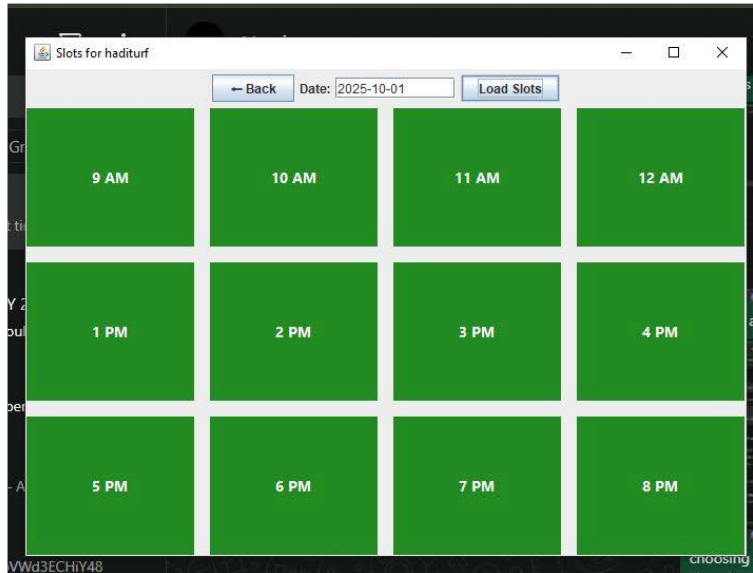
USER DASHBOARD WHERE WE
CAN VIEW TURFS , VIEW MY
BOOKINGS AND LOGOUT



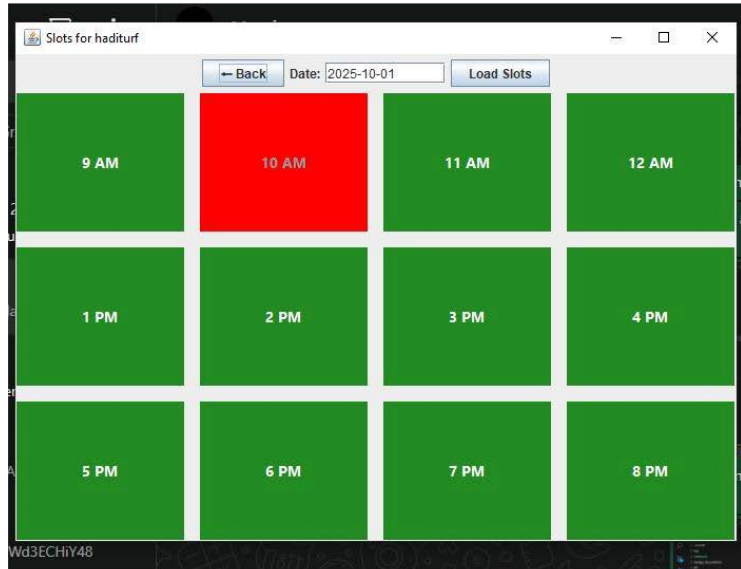
SHOWING AVAILABLE TURFS



**CHOOSING HADI'S TURF BUT
TIME IS OVER SO ALL
SLOTS CLOSED]**



SHOWING SLOTS FOR NEW DAY
WE CAN CHOOSE WHICHEVER
DAY IF AVAILABLE IT SHOWS
GREEN OTHERWISE RED IF
BOOKED ALL ARE REAL TIME
AVAILABILITY

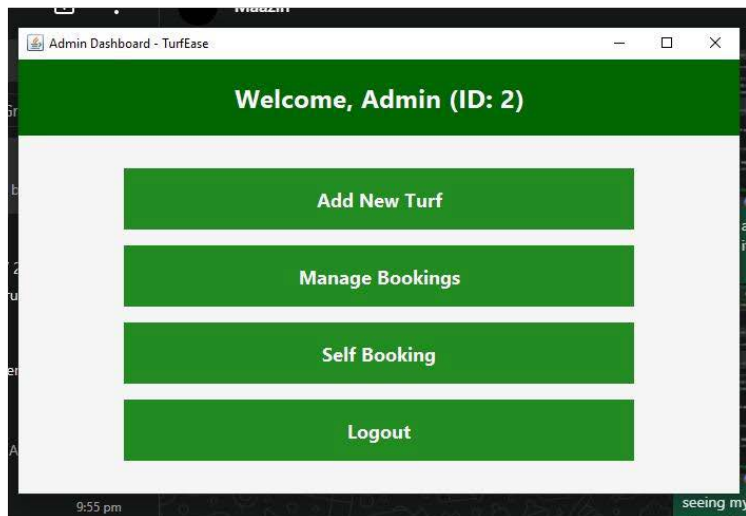


BOOKING A SLOT BECOMING RED
IF ANOTHER USER LOGIN THEY
SEE IT AS ALREADY BOOKED -
REAL TIME AVAILABILITY

My Bookings					
Booking ID	Turf	Date	Start	End	Status
45	haditurf	2025-10-01	10:00:00	11:00:00	booked
42	haditurf	2025-09-23	15:00:00	16:00:00	booked
41	haditurf	2025-09-23	14:00:00	15:00:00	booked
39	haditurf	2025-09-23	13:00:00	14:00:00	booked
33	haditurf	2025-09-23	12:00:00	13:00:00	booked
32	haditurf	2025-09-23	11:00:00	12:00:00	booked
38	haditurf	2025-09-23	10:00:00	11:00:00	booked
29	abijithturf	2025-09-23	09:00:00	10:00:00	cancelled
28	abijithturf	2025-09-22	09:00:00	10:00:00	booked
30	abijithturf	2025-09-21	12:00:00	13:00:00	booked
31	abijithturf	2025-09-21	10:00:00	11:00:00	booked
18	haditurf	2025-09-21	10:00:00	11:00:00	booked

Cancel Selected Booking

SEEING MY ALL PREVIOUS
BOOKING IF NEEDED WE CAN
CANCEL THE BOOKING AND
AUTOMATICALLY THE SLOT
BECOME AVAILABLE AGAIN



ADMIN DASHBOARD WHERE EACH ADMIN CAN CONTROL THEIR OWN TURF , ONLY ONE TURF FOR EACH ADMIN SO HE CANNOT ADD A NEW TURF . CAN MANAGE BOOKINGS, CAN DO SELF BOOKING IF ANYONE CAN CAME OFFLINE AND BOOK CAN DO IT HERE AND IT BECOME SYNCED AUTOMATICALLY AND OTHER ONLINE USERS CAN SEE IT ALREADY BOOKED, LOGOUT OPTION.

Manage Bookings - TurfEase

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Booking ID	Name	Phone	Turf ID	Turf Name	Date	Start	End	Status
10	Admin One	9999999991	3	abijithturf	2025-09-17	13:00:00	14:00:00	booked
11	Admin One	9999999991	3	abijithturf	2025-09-17	15:00:00	16:00:00	booked
13	alokkk	7575757575	3	abijithturf	2025-09-17	09:00:00	10:00:00	cancelled
14	HadiSalim	7592021946	3	abijithturf	2025-09-17	09:00:00	10:00:00	cancelled
24	HadiSalim	7592021946	3	abijithturf	2025-09-15	09:00:00	10:00:00	booked
25	HadiSalim	7592021946	3	abijithturf	2025-09-21	09:00:00	10:00:00	booked
26	HadiSalim	7592021946	3	abijithturf	2025-09-20	09:00:00	10:00:00	booked
27	HadiSalim	7592021946	3	abijithturf	2025-09-20	10:00:00	11:00:00	booked
28	HadiSalim	7592021946	3	abijithturf	2025-09-22	09:00:00	10:00:00	booked
29	HadiSalim	7592021946	3	abijithturf	2025-09-23	09:00:00	10:00:00	cancelled
30	HadiSalim	7592021946	3	abijithturf	2025-09-21	12:00:00	13:00:00	booked
31	HadiSalim	7592021946	3	abijithturf	2025-09-21	10:00:00	11:00:00	booked

Cancel Booking Edit Booking

CALL FOR TEAM - APP DEVELOP automatically and other online

MANAGE BOOKINGS OF ADMIN
WHERE HE CAN CANCEL THE
BOOKING AND IF THE USER NEED
TO EDIT THE BOOKING THE
ADMIN CAN EDIT THE SLOT TO A
NEW TIME OR NEW DATE

The screenshot shows a web browser window titled "Self Booking - TurfEase". The page has a green header with the text "Self Booking". Below the header, there are four input fields with labels: "Customer Name:", "Phone:", "Date (YYYY-MM-DD):", and "Start Time (HH:MM):". The "Date" field contains the text "2025-09-30" and the "Start Time" field contains "09:00". Below these fields is a green button labeled "Book Slot". At the bottom of the page, there is a footer that reads "© 2025 TurfEase Project".

Self Booking - TurfEase

Self Booking

Customer Name:

Phone:

Date (YYYY-MM-DD):

Start Time (HH:MM):

Book Slot

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**SELF BOOKING PAGE . ALL ARE
AUTOMATICALLY SYNCED**