# Simple Turf Booking System

Simple Turf is a web-based booking system designed to facilitate the reservation of turf units in different cities. Users can select available time slots for their preferred turf unit, receive booking confirmations via SMS, and owners are notified of new bookings.

## Installation and Setup

### Prerequisites

* Python 3.x
* MySQL database server
* Flask framework
* vonage library (for SMS notifications)

### Installing Dependencies

1. Clone the repository to your local machine.
2. Create a virtual environment: python -m venv venv
3. Activate the virtual environment:
   * On Windows: venv\Scripts\activate
   * On macOS/Linux: source venv/bin/activate
4. Install required Python packages: pip install -r requirements.txt
5. Set up MySQL database:
   * Create a database named simpleturf.
   * Run the provided SQL script to create the necessary table and insert example data.

#### Database Structure

The turfdatas table should have the following structure:

CREATE TABLE turfdatas (

id INT AUTO\_INCREMENT PRIMARY KEY,

city VARCHAR(255) NOT NULL,

turf VARCHAR(255) NOT NULL,

details TEXT,

slot VARCHAR(255),

booking\_date DATE,

bookings TEXT,

is\_blocked TINYINT(1),

block\_time DATETIME

);

Insert example data into the turfdatas table using the following command:

INSERT INTO turfdatas (city, turf, details, slot)

VALUES ('Hubli', 'Unit 1 Turf', 'location: Opposite Sector 1, phone no: 9179876116', '9am-10am,10am-11am,11am-12pm,12pm-1pm,1pm-2pm,2pm-3pm,3pm-4pm,4pm-5pm,5pm-6pm,6pm-7pm,7pm-8pm,8pm-9pm,9pm-10pm');(for one city)

### 3.Project Structure

vbnet

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simpleturf/

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├── static/

│ ├── css/

│ │ └── style.css

│ └── js/

│ └── script.js

│

├── templates/

│ ├── index.html

│ ├── turfs.html

│ ├── details.html

│ ├── success.html

│ └── error.html

│

├── app.py

├── README.md

├── requirements.txt

├── LICENSE

└── .gitignore

* static/: Contains CSS and JavaScript files.
* templates/: HTML templates for Flask.
* app.py: Flask application code.
* README.md: Documentation and instructions.
* requirements.txt: Python dependencies.
* LICENSE: License information.
* .gitignore: Specifies files/directories to be ignored by Git.

### Usage

1. Start the Flask application: python app.py
2. Open a web browser and go to http://localhost:5000/.
3. Select a city and turf unit to view available time slots and make bookings.
4. Enter your phone number and choose a time slot to book the turf unit.
5. You will receive an SMS confirmation upon successful booking.

### 4.Nightly Reset

The booking slots are reset nightly at 12:05 AM to ensure availability for the next day's bookings.

### 5.SMS Notifications

Users receive booking confirmations via SMS, and turf owners are notified of new bookings through SMS alerts.

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