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## Turf Near You

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### ABSTRACT:

Turf playgrounds are used to play various sports like football, cricket, etc. People enjoy playing on the turf, it an artificial playground where it has vibrant environment and very safe to play. Many school teams and clubs prefer turf playground for practice and training purpose. Sometime it becomes difficult to book turf playground because of timing issue or the slot getting booked previously. This sports ground booking website is proposed for booking the turf in an easy and efficient way. It has three modules namely Admin, Organizer and Team. Admin can login , manage and monitor the overall functionalities of the system, Admin have the ability to determine whether the turf that have been registered by the organizers are available for use or not and also admin can delete the registered turf and tournament. Organizers can add their turfs, also they can host tournaments and cancel the registered tournaments. Organizers can view the details of all the booked turfs and tournaments by the users on their profile. Teams can check the details of turfs and tournaments available in the specific locations. Teams can book and cancel turf hosted based on the availability of the slot, they can register for tournament hosted. Teams can view the details of all the booked turfs and tournaments on their profile.

Keywords: Turf

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### Introduction:

Turf playground are used to play various sports like football, cricket, etc. People enjoy playing on the turf, an artificial playground where it has a vibrant environment and very is safe to play. Many school teams and clubs prefer turf playgrounds for practice and training purposes. Sometimes it become difficult to book turf playground because of timing issues or the slot getting booked previously. The website is accessible for teams, organizers and admin where Team can check the details of turfs and tournaments available in the specific locations. They can book and cancel the slots for their team, also view the details of all the booked turfs and tournaments in their profile. Organizers can add & cancel their turfs. Also they can host and cancel the tournaments. They can view the details of all the booked turfs and tournaments by the users. Admin can manage and monitor the overall functionalities of the system. They can also check whether the turf details provided are genuine or not.

### Objective:

The major objective of this app is to create an online user friendly application that encourages the spirit of sports and provides the scope of future sports and related businesses. The system provides our community to surf through several turf slots available and upcoming tournaments hosted on different localities. The main objective of this application are as follows:-

1. To view and register available turfs in particular locations.
2. To register and view upcoming tournaments hosted in particular locations and its registrations.
3. The users can search the available turfs and tournaments based on locations and names.
4. Allow users to book and cancel the available slots for the particular turf.
5. To reach out the nearby turfs easily.

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## **System Study:**

### ***Existing System - Problem Definition***

Currently the type of system being used at the counter is an internal system which is manually used in bookings. The problems faced by the company are that customers have to go to the counter to book a slot, customers will also have to queue up for a long time in order to secure a slot and will also need to pay cash when they make booking.

### ***Proposed System - Advantages and Opportunities***

By considering the problems from the existing system, a more advanced system has been proposed. In the new system the user will be asked to register once at the start. The application proposed will allow users to book any sports amenity if available. Our application will then provide the user with a list of nearby sports amenities. The list will also contain the information about booking availability. Based on the information the user has to decide the ground or court he/she wishes to play on. If the team/user makes the booking where ground or court is available, the team will be allocated a ground or court for a specified time slot. But if the ground is not available and the team/user still wishes to book the ground then the application will show all nearby grounds where bookings had not been made. Bookings for ground will be given on first come first serve.

### ***System Design - Basic Modules***

This system has 3 modules:

1. Team Module
2. Organizer Module
3. Admin Module

#### ***Team Module:***

1. Teams can check the details of turfs and tournaments available in the specific locations.
2. They can book and cancel the slots for their team.
3. They can view the details of all the booked turfs and tournaments they have booked in their profile.
4. They can give ratings for the turfs.

#### ***Organizer Module:***

1. Organizers can add & cancel their turfs.
2. Also they can host and cancel the tournaments.
3. They can view the details of all the booked turfs and tournaments by the users.

#### ***Admin Module:***

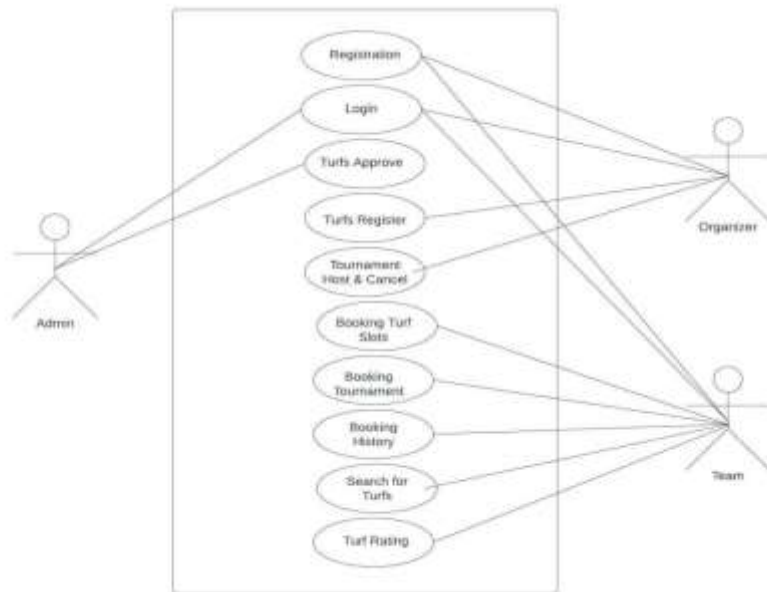
1. Admin can manage and monitor the overall functionalities of the system.
2. They can determine if the registered turf by the organizers is available or not.
3. Also they can delete the registered turf and tournament.

**METHODOLOGY:**

*System Workflow and Activity Diagram:*



*Use Case Diagram:*



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## Conclusion

Turf Near You, The web based Django application mainly focuses into the location based service providing such as nearby turfs recommending system and its online booking and registrations. The system also provides its users to view upcoming tournaments hosted on particular locations and its registrations. The system helps out the users to search and find the nearby turfs or the turfs available in the particular location. So, the system studied the existing online turf booking systems and added on the above stated features into the proposed system to provide better user experiences. Overall the application provides a complete solution for the turf booking and its registrations.

Currently, our application consists of turfs details which relay on the data that are fed by the organizers. To enhance this feature we need to construct a built-in chatting system for the teams to interact with organizers for more details of tournaments and turfs. The application we developed is a web application, this can also be implemented as a mobile application. Also a custom filtering recommendation system based on the turfs quality, features etc., need to be implemented for distance calculation and best top rated turfs listing. A lidar-based scanning facility is to be implemented for import and view the 3D model or AR of the turfs for its users.

## References:

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List all the material used from various sources for making this project proposal

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