

# Online Ground Booking System using Android Mobile Application

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**Abstract**— The Grounds presently runs a manual reservation system and as customers are desirous to find a handy application for booking or any other services to avoid physical walking to the ground or contacting by call or reserving through a middle man. Current research was aimed to design a client/server application for online booking system. Ground booking system is an android application that can affectively improve their booking system in order to provide direct access of every user to the management. It has given the benefits of effective booking corridor or to hold their accessible ground with holding up through an android application. The administrator can keep up the bookings. This can enhance the popularity among their intended customers coupled with speedy and direct service availabilities.

**Keywords:** Android, Mobile Application, Ground Booking, Ground Management

## I. INTRODUCTION

Playgrounds are used to play various sports like football, rugby, tennis, cricket, etc. People enjoy playing on the turf, 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, Manager and User. Admin can login and can add turf locations, assign manager by creating login credentials for manager, add price details for the particular turf, manages turf and view the details of sports venues booking for all locations. Managers assigned by the Admin are different for different Turf playground locations. Managers will get login credentials from admin, he/she can login using credentials, he/she can check the rates, view the request for turf booking for the respective location, can accept booking, generate bill and can view the booking history. Users can check the availability of the turf, select timings, fill personal details, can pay by providing bank details or card details and he/she can also see view previous turf booking history.

The same goes for booking based businesses of all types, whether they're local councils, restaurants, kids play areas or tattoo parlors. The benefits of online booking are clear to see and are utterly vital if you're intending to grow your business in 21st century.

Quite clearly then, online booking systems are both increasing the present and future of bookings for all kinds of businesses. Though electronic booking was once viewed as dangerous and confusing, current tools have opened many eyes to the benefits of online booking.

## II. LITERATURE REVIEW

In this section, we will survey in brief on the usage of online reservation/booking systems which are used in public or private sports complex. In research we have found that there are no sports complex using such a system to manage and monitor their complex. Now a day's online business earns more capital then compared to offline businesses thus making them more potential to acquire the market. Keeping that in mind our system aims to provide a platform which provides a clean and detailed management to sports complex's in terms of bookings and cash flow making them more reliable and readily available in market.

In countries like USA such systems are already available in market and hence creating a business opportunity in new dimensions. Their systems are quick and robust hence making a booking is so simple with online payments. When required to show their booking, mobile users would simply show the manager a virtual ticket on their smartphone.

Other research also shows sports complex are less famous in their locality due to their absence on digital world, this makes their business less profitable and chances to a failure. Hence making business online is good solution to be famous in locality and getting more users making business good. Another drawback of not being an online business is getting less customers which eventually drops the growth rate or profit of your business. Hence making a choice of being an online business is always preferred. So far from the literature review, it is clear that an online booking/reservation system for an sports complex would be very much profitable and manageable.

## III. PROBLEMS IN EXISTING SYSTEM

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 an 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.

## IV. PROPOSED WORK

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 nearby sports amenity. 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. While booking a particular ground or court team/user has to pay 50% of ground fees then only booking is confirmed. If the team/user makes the booking where ground or court is available, the team will be allocated a

ground or court for 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 made. Bookings for ground will be given on first come first serve.

### V. IMPLEMENTATION

The system interface contains login or registration of user, user might be a player or administrator of the ground. Once login has been done user can select the time slot and nearby grounds will appear which has not been booked, user can select a ground and can make a booking after paying money through payment gateway provided, the the details of user will be then sent to database and report will be generated, user will also get a QR code scanner which he /she has to get scanned before entering the ground, it is to check validity.

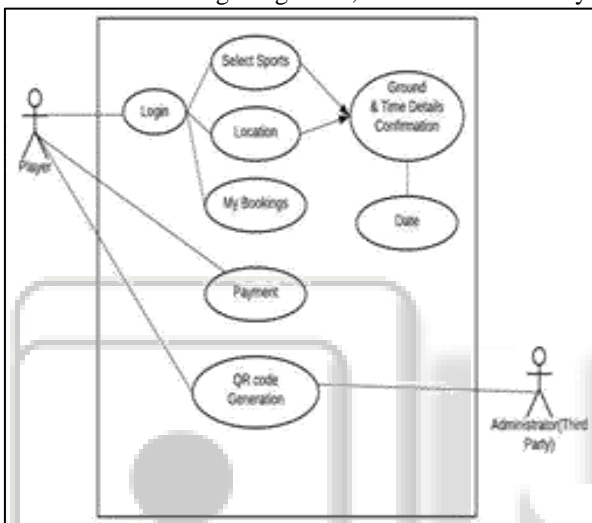


Fig. 1: User UML diagram

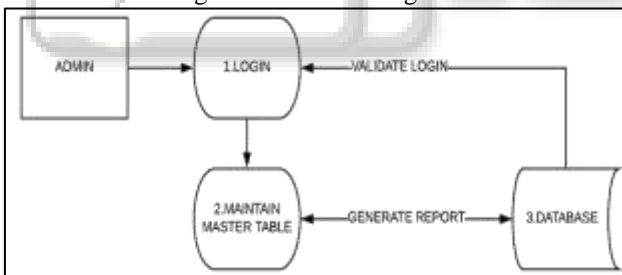


Fig. 2: LEVEL 1

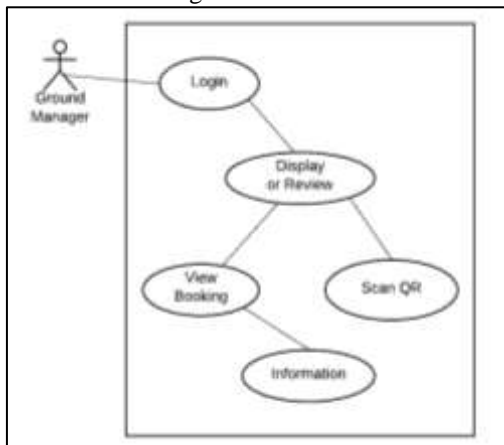


Fig. 3: Manager UML diagram

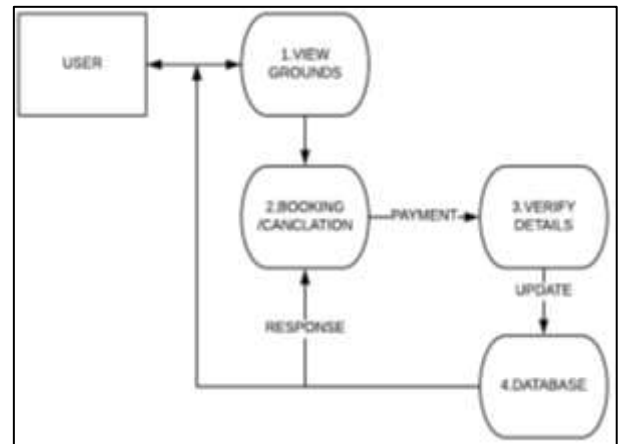


Fig. 4: LEVEL 2

### VI. CONCLUSION

In summary, this project aims to give an agile booking experience and an organized management system for sports complex. If implemented it will give a new experience to customers as well as contribute a part for fit nation movement. With the growing technologies and mobile-phones this is the right time to adapt this technology so that people can make best out of it.

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