



# Web-based venue booking system

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**Abstract—** A web-based venue booking management system provides reliable and easy to use online reservation system for wedding halls, party halls, and all other bookable venues. A venue booking management system provides the searching facilities. This web application is to check the availability of venue and book it; hence we need not go and visit the place. Information of individual's venue with facilities, amenities, images etc. is displaying during the booking. It is web-based system, available from anywhere through a browser. It is simple to follow, which has web based options. It is going to provide flexible bookings. An efficient and user friendly system is required to reserve the venue before-hand and make the information available to others to check the status of the venue before booking. There is no system available in Amravati that can manage online venue booking in term of real-time availability and utilization.

**Keywords—** venue booking, hall management, online event venue booking, reservation system

## I. INTRODUCTION

This is a special type of web portal to easily get the information of all function halls which display the separate calendar for the separate venue. For a particular date, we can see the availability of the hall as well as the lawn.

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We can easily get the list of function halls in Amravati. Also, we have detailed contact information for some particular venues. But we cannot get the availability, facilities, and amenities provided by the venue owner on a particular event date. To get the details, we have to visit the venue personally and ask about the availability and the facilities provided by the venue owner. So the background behind this web application is that it gives detailed information and about the venue, facilities, amenities, etc. and booking online.

## II. LITERATURE REVIEW

In the paper presented on IEEE in 2016 by LinhDuc Tran, Alex Stojcevski and Thanh Chi Pham, they have mentioned about an automated hall booking system. In most meeting room scheduling or management system, the availability of meeting rooms are mainly based on pre-determined schedules. However, since the meeting duration is not always exact as it is scheduled, there are some situations that a meeting room is underutilized.

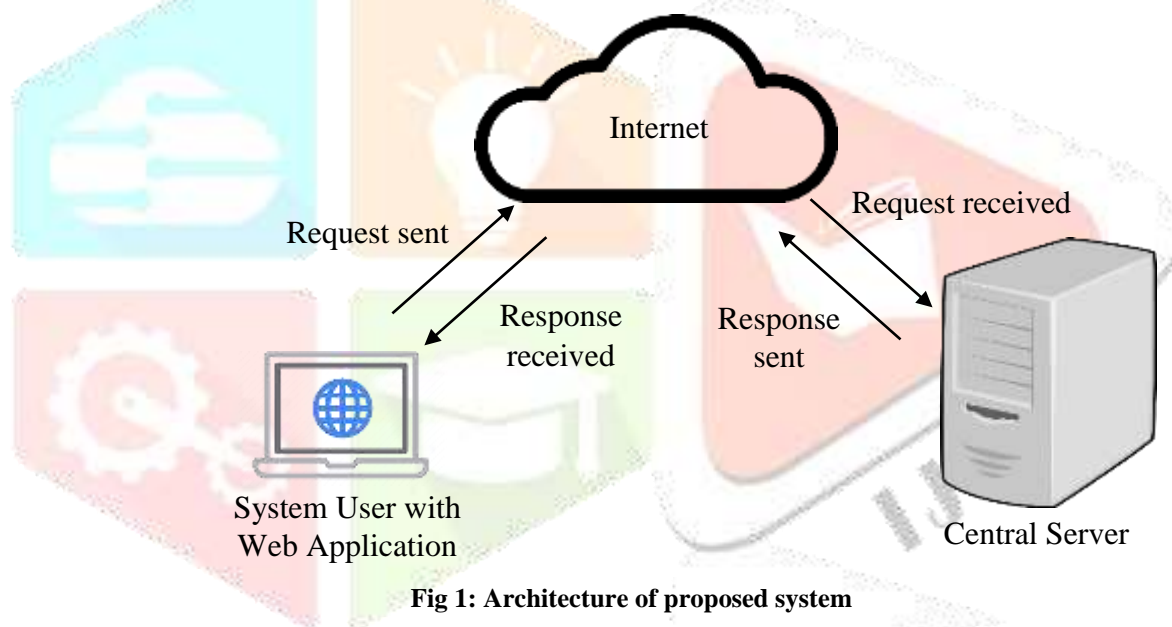
Meetings are indispensable events in every organization where people can simply share knowledge and information or discuss for important decisions. To facilitate those activities, most of researches concentrate on improving scheduling software to help participants select optimal meeting time or building smart meeting rooms where audio-visual content are automatically recorded for future viewing. There are very limited number of systems that can manage meeting rooms in term of real-time availability and utilization.

This study is aimed to target this area and address existing issues. First of all, since a meeting room can only be reserved for a meeting appointment at a time, there are some circumstance that those resources are underutilized. For example, a meeting may be over before scheduled time or even not happen at all but still reserves a room in scheduling software and prevent others from using. In addition, conventional meeting scheduling/booking software cannot support ad-hoc/ drop-in meetings because the real-time availability of meeting rooms are unavailable. For this type of meetings, people may take a lot of time to find an unoccupied room to use, especially when these rooms are located in different buildings. To resolve these problems above, in this paper, we propose a smart meeting room management and scheduling system with real-time occupancy detection to support ad-hoc meetings and maximize utilization.

### III. SYSTEM DESIGNS

Systems design is the process of defining the architecture, components, modules, interfaces, and data for a system to satisfy specified requirements. There are a lot of approaches for system designing, however the most widely used methods are the Object Oriented Design methods.

The system architecture is a conceptual model that defines the structure, behavior, and more views of a system. An architecture description is a formal description and representation of a system, organized in a way that supports reasoning about the structures and behaviors of the system. A system architecture can comprise system components that will work together to implement the overall system.



**Fig 1: Architecture of proposed system**

The user uses web application for booking the venue place, the details of booking are sent to the central server across the internet. The central server data is maintained using a PHP application which is used to update the database, create users and view booking.

#### Data flow diagram:

A Data Flow Diagram (DFD) is a graphical guide for characterizing framework information sources, Process and yields. It speaks to stream of information through the framework. The DFD is a standout amongst the most essential displaying employments. It is utilized to demonstrate the framework segments. DFD might be into levels that speak to expanding data stream and utilitarian subtle elements.

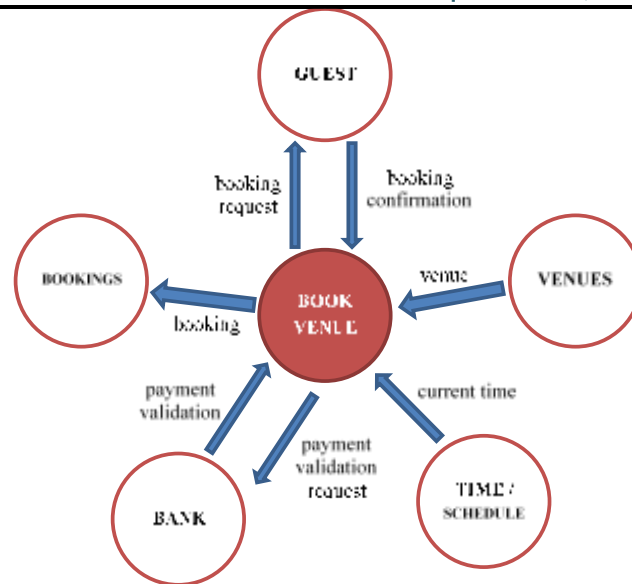


Fig 2: DFD – Venue Booking System

**Use Case Diagram:**

Use case diagrams are usually referred to as behavior diagrams used to describe a set of actions (use cases) that some system or systems (subject) should or can perform in collaboration with one or more external users of the system (actors). Each use case should provide some observable and valuable result to the actors or other stakeholders of the system. The figure 3 shows use case diagram for the system.

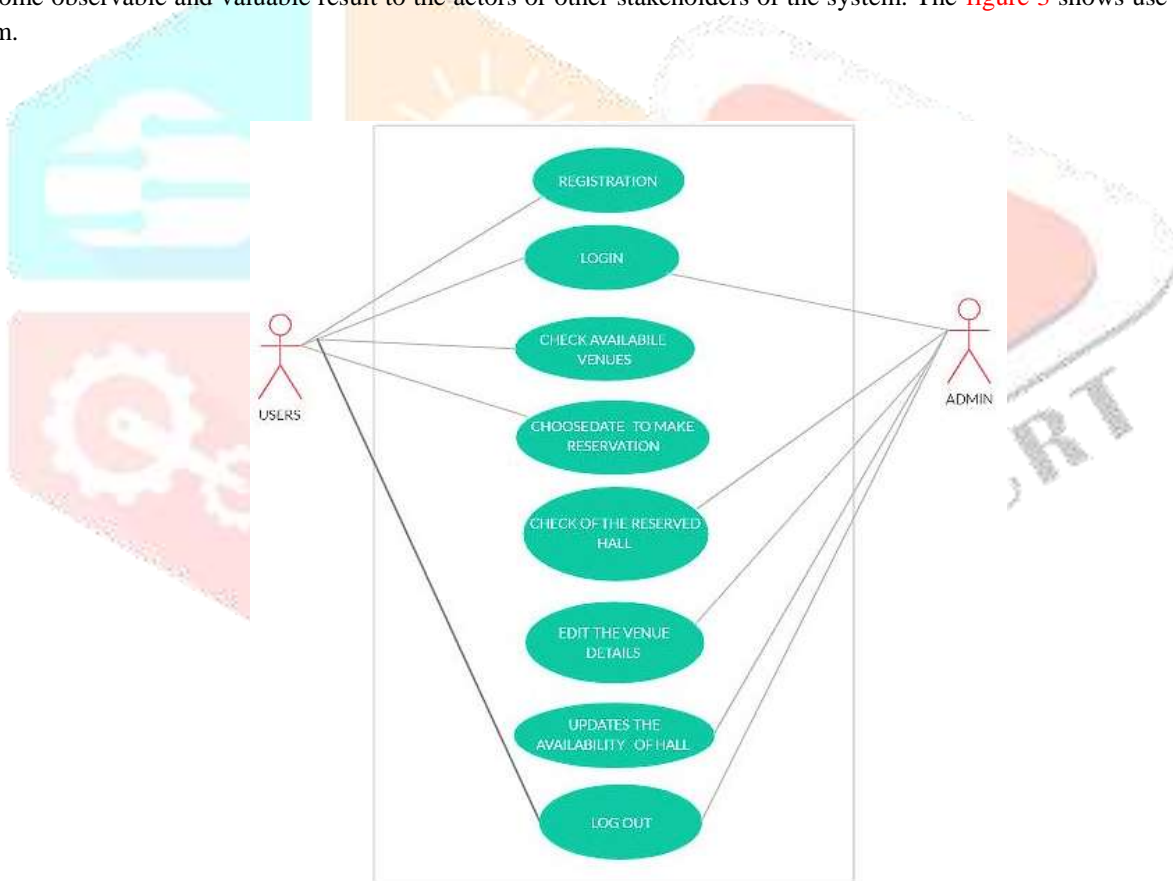


Fig 3: Use Case Diagram for the system

**IV. CONCLUSION**

. The system helps the users to plan their venue reservations for functions, parties, weddings, meetings etc. We design a web portal for reducing the time and money of users for searching a Venue in city. Using this portal, user can find the venue in specific area with specific needs. Also can find out the extra Amenities about specific Venue. Client can compare rates and other facilities of various venues. Here User can able to see the reserved date for available Venues at portal. When user make booking of a specific venue for a specific date

## V. FUTURE SCOPE

It can be summarized that the future scope of the project maintaining information regarding:

- We will host the platform on online servers to make it accessible worldwide
- We will develop Android / iOS App for mobile users.
- We will implement the backup mechanism for taking backup of codebase and database on regular basis on different servers.
- We will integrate gateway services to communicate with users.

The above mentioned points are the enhancements which can be done to increase the applicability and usage of this project.

Here we can maintain the records of Booking and Customer.

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