

Software Requirements Specification

For
Conference Booking System

Version 1.0 approved

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INTRODUCTION(PES2UG20CS434)

1.1

Purpose

A conference room booking system provides the tools to reserve office space, schedule meetings, and overall help businesses operate an efficient hybrid work model. Rather than requiring employees to come into the office every day, companies can utilize conference room booking systems to reserve office space when needed. When you need a meeting room, booking systems allow you to reserve the room at a specific time and invite others to attend.

1.2

Intended Audience

This document aims at describing all the requirements of this particular software effectively. It is intended to be read and understood by the application developers, the testing team, the project managers for effective implementation of the necessary features.

The rest of the SRS document consists of the product functions, the external user interface requirements, the priorities of the features being implemented, the operating environment used, the system features, etc. It also consists of the non- functional requirements of the software .It also consists an use case diagram and a clear documentation of the features that are being implemented in the project.

It is of great help to all the stakeholders involved in the project. It can also be used as a reference to the developers in the future.

1.3

Product Scope

The purpose of conference room booking system is to create convenient and easy-to-use application for maintaining records of bookings of different managers in a conference room. Above all, we hope to provide a comfortable user experience. We have database server supporting records of bookings of managers to schedule the conference rooms.

It primarily has two users:

- 1.The manager: The manager can login using the registered username and password through the login module. They can view different venues and schedule the meetings accordingly.
- 2.The admin: The admin can update and record the details of the managers whenever necessary.

He can create the accounts for the managers using the registration option in the login module.

References

- 1) <https://www.google.com/>
- 2) <https://www.workinsync.io/conference-room-reservation-system-a-detailed-guide>
- 3) <https://www.officetogether.com/blog/what-is-a-meeting-room-booking-system>

OVERALL DESCRIPTION(PES2UG20CS422)

Product Perspective

The software CONFERENCE ROOM MANAGEMENT SYSTEM is a web based Platform where multiple Users are provided with -

Description of various Conference Halls:

The various facilities provided by the Conference Hall / Room and the seating capacity of the Room/Hall.

Availability of Conference Halls:

Details regarding whether the Conference Room/Halls are available on the scheduled dates.

Booking of Conference Halls:

Allow the Users to book the Conference Halls/Rooms according to their choices, preferences or requirements.

Summary of Booking:

Display the Booking Details like the Conference Hall booked by them ,cost of the Hall and Schedule of their Booking.

The various Tools (Functional Stack) that have been used in developing the software are as follows:

Front End/User Interface:

HTML (Hyper text markup language)-Format the text document on the web.

CSS /JAVASCRIPT JS(Cascading styling sheets): Styling sheet language used for describing the application and formatting.

Backend:

PHP: Server - side scripting Language.

MYSQL: Relational Database for storing user data.

XAMMP SERVER: Web Server for the purpose of Hosting the website.

Product Functions

The various features or functions of the Software are provided below:

- 1)Registration of new users and existing Users authentication.
- 2)Description of Various Conference Halls like the facilities provided by them and seating capacity of Halls.
- 3)Availability of Various Conference Halls on the Scheduled Dates.
- 4)Schedule the Booking of Conference Halls.
- 5)Periodical Announcements of Meetings
- 6)Display the Summary of their Booking.
- 7)Allow the administrator to manage the booking software like accessing the database.

The software is designed in such a way that the application is User friendly and multiple users can access the Software.

2.3

User Classes and Characteristics

The Various User Classes that will be using this product are:

1)Customers:

The main target Users are (Corporate companies ,Colleges, Governmental and Non-Governmental organizations) they can Register themselves ,login and book the conference hall on the Scheduled dates and Get a Summary of their Bookings.

2)Administrator:

Allow the administrator to manage and Modify the Database and make necessary changes if required.

2.4

Operating Environment

The System will be able to run on every platform where the web Browser exists. Any web browser like Google, Microsoft Bing, Mozilla Firefox. Web Server and DBMS should be capable of receiving a number of requests simultaneously.

Operating System Windows 10/11, Ubuntu, MAC OS.

2.5

Design and Implementation Constraints

1)There are minimum memory requirements for accessing MYSQL database.

Hardware Limitations- The minimum memory required to run the software 4GB.

2)Software is Limited only To web Browsers .

3)Language Constraints-The information is Available only in English.

2.6

User Documentation

No tutorials have been developed as of now.

2.7

Assumptions and Dependencies

The user is familiar with internet and web based software like social networking sites. The browsers which the user is using are either Google Chrome 10.0 and above or Mozilla Firefox 4.0 and above.

EXTERNAL INTERFACE REQUIREMENTS **(PES2UG20CS461)**

3.1

User Interfaces

The conference room booking system is a simple, intuitive and user friendly interface. An intuitive user experience accelerates user adoption and enhances employee productivity. Additionally, training costs are lower if the application is easy to use.

To show the ease of interaction with system sees the use case diagram of the system:

- In the use case diagram, it is clearly shown how the manager is directly interacting with the process. He/she can further go to a home page which gives them various tabs to navigate.
- The admin will have access to the registration module where they register the managers and provide a login id for their future use.
- Each tab will provide special functionality to the user. For managers, the booking tab will open a form which should be filled and submit the form to confirm the booking. For admin, software will allow them to delete the booking.
- There is an interface for the admin to create manager's profile and update the bookings.

3.2

Software Interfaces

The software required for the development of the project is:

- **Operating System:** Windows 10/11
- **Environment:** Visual Studio .NET 2002
- **Framework:** Version 1.0
- **Language:** HTML,CSS and Javascript
- **Backend :** SQL

3.3

Communications Interfaces

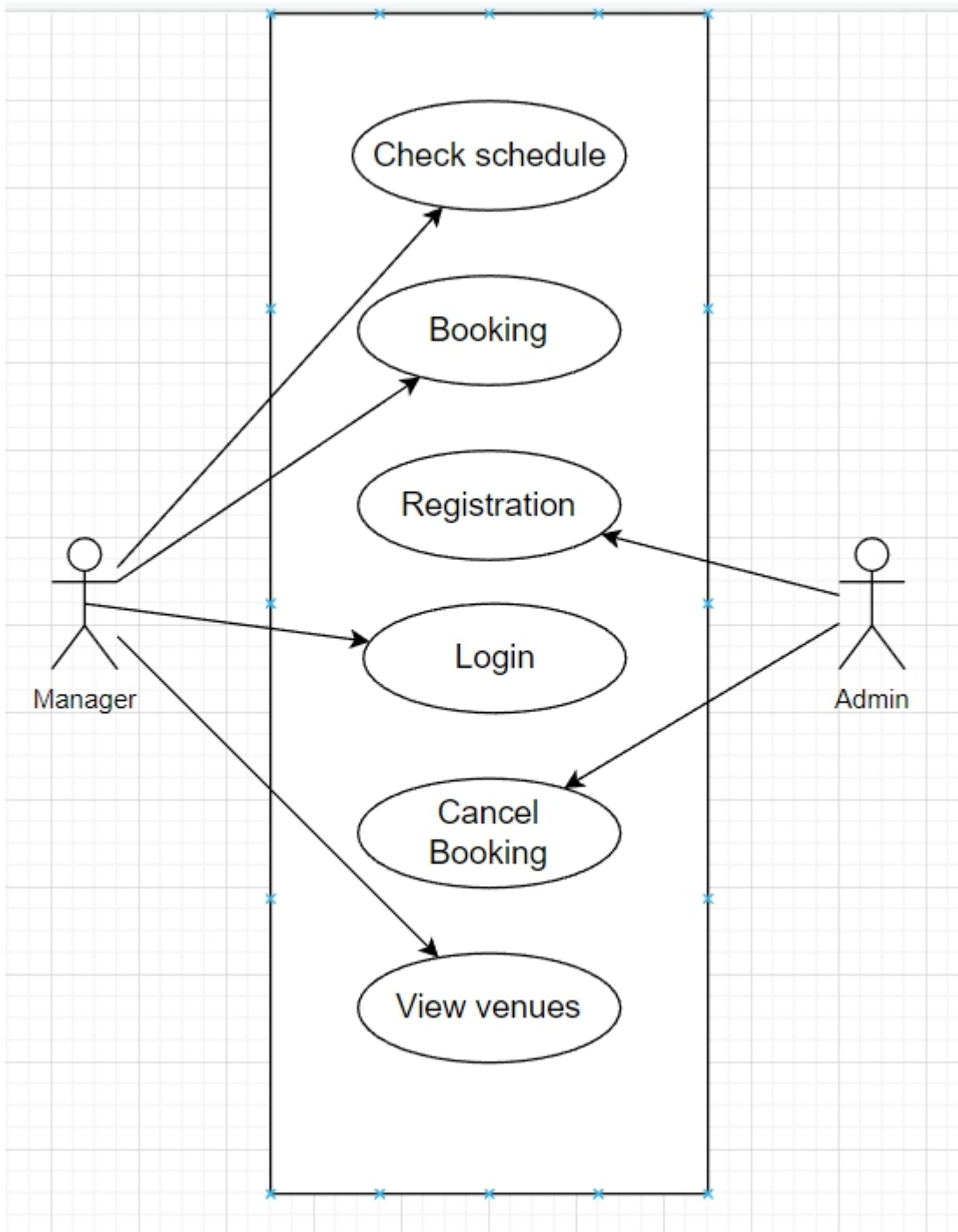
Connections to the system will be through TCP/ IP gateways.

3.4

Hardware interface

- Processor: Intel P-IV System
- Processor Speed: 250 MHz to 833 MHz
- RAM: 2Gb
- Hard Disk: 64 Gb

ANALYSIS MODEL(PES2UG20CS457)



SYSTEM FEATURES(PES2UG20CS457)

The conference hall booking system has the following users -

1. Manager
2. Admin

Manager Features-

5.1.1 Description and Priority

Managers are able to -

- ❖ View the venues and its details concerning the meeting room capacity and the availability of projectors.
- ❖ Book a venue(conference room).
- ❖ Check the schedule of already booked venues and plan accordingly.

This is a high priority feature.

5.1.2 Stimulus/response sequence

STIMULUS	RESPONSE
Manager accesses the web page	Login page is displayed which requests user-id and password
Manager logs in	User-id and password is verified
Manager clicks on “venues”	Software displays all the venues with details about it,which gives the manager to freedom to select a venue which fits their requirements.
Manager clicks on “Booking”	Software displays a form which the manager has to fill to book a meeting hall.
Manager clicks on “Schedule”	Software displays all the bookings.

5.1.3 Functional requirements

- Database must be created to hold user-id and password.
- Database must be created to record the bookings.
- Form should be created for the manager to fill the details for their booking.

REQ-1:MANDB

REQ-2:MANBOOK

REQ-3:FORMBOOK

Admin Features-

5.1.1 Description and Priority

Admins are basically the owners of the venues.Admins are able to-

- ❖ Cancel a booking.
- ❖ Create manager profiles.

This is a high priority feature.

5.1.2 Stimulus/response sequence

STIMULUS	RESPONSE
Admin accesses the web page	Login page is displayed which requests user-id and password
Admin logs in	User-id and password is verified
Admin clicks on “create user”	Software displays an option to create a manager account.
Admin clicks on “delete booking”	Software deletes that particular booking.

5.1.3 Functional requirements

- a.Create accounts for manager.
- B.Delete bookings.

REQ-1:CREACC
REQ-2:DELBOOK

OTHER NONFUNCTIONAL REQUIREMENTS **(PES2UG20CS461)**

6.1

Performance Requirements

The system must be capable of supporting:

- 1) In-depth insights into the booking patterns, cancellation frequency .
- 2) Facility managers deciding on the seating capacity of each room.
- 3) Minimization of booking steps and costs with hassle-free conference room booking software.
- 4) System runs smooth 24/7 provided good internet.

6.2

Safety Requirements

Maintainability and reliability of the system is ensured very thoroughly. All the records and bookings kept in the database have backups and the system can restore in case of failure. This

reconstructs a more current state by reapplying or redoing the operations of committed transactions from the backed up log, up to the time of failure.

6.3

Security Requirements

The security of the system is maintained by providing a login interface to the user. Only those who have a membership account can enter the system. If a user forgets the password it will be restored with high security and with the consent of the user.

