UE20CS303

Software Engineering - Project

Software Requirement Specification

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INTRODUCTION

Purpose

A conference room booking system that allows you to book the right conference room to boost business and productivity.

Scope

A conference room booking system that allows you to book the right conference room to boost business and productivity. The system will allow you to book from various types of rooms for working groups of different sizes and varied time slots.

Users will be able to book real time and complete payments and receive confirmations via the system. The main focus of the project is convenience, focusing on providing the best booking experience and customer service to people looking to make the best use of their work hours.

Definitions, acronyms, and abbreviations

Admin – Administrator

Dash – Dashboard

References

None Applicable

Overview

A conference room booking system that allows you to book the right conference room to boost business and productivity. The system will allow you to book from various types of rooms for working groups of different sizes and varied time slots.

Users will be able to book real time and complete payments and receive confirmations via the system.

OVERALL DESCRIPTION

Product Perspective

The product itself will be a free to use software accessible via the website.It is a web based system implementing client-server model and can be accessed from any browser supporting javascript. The product once hosted will be able to handle a fairly good number of concurrent users.

Product Functions

The website will allow anyone to book conference rooms according to their convenience. They will be able to choose from a range of dates and times as per their needs. They will also be able to choose their location and book the size of room they need. Additional functions may include requirements such as wi-fi or eatables. Search functions will also be enabled. FAQ section to use the product may be included too.

User Characteristics

It is considered that the user does have the basic knowledge of operating the internet and to have access to it. The administrator is expected to be familiar with the interface of the tech support system.

The target audience will be businesses that need meeting rooms, co working spaces, or individual freelancers.

It could also include start ups who are yet to have a permanent working address.

Constraints

Bookings will be confirmed only once half the payment has been made online, no cash will be accepted. Bookings once confirmed cannot be cancelled from 3 hours prior to the start of the booking period.

Operating Environment

This is a web based system and hence will require the operating environment for a client and server GUI. The operating environment will depend on the browser.

Assumptions and Dependencies

This software highly depends on type and version of browser being installed in the system i.e. browser version should be used which have HTML5 and javascript support.

All dependencies will be loaded and run on the backend.

External interface

The software will provide a GUI for the conference room booking. It enables the user to book various types of room for working groups.

- User interface: GUI.
- Hardware interface: personal computer.
- Software interface: html, PHP.
- Communication interface: confirmation message on successful payment.

System Features

Functional Requirements:

It will have buttons for different functions such as:

- Logging in/signing into the page.
- booking the type of room for meetings.
- selection of time slots and dates.
- payment transaction.
- confirmation page.
- Logout page.

NON-FUNCTIONAL REQUIREMENTS

1. Performance Requirements

Web page and UI

The web page user interface must load in very short span of time – a maximum of 3 seconds to load every web page and a clean and smooth running UI is of utmost importance. This task is assigned a priority attribute as HIGH.

Redirection

Web page redirection load time should be minimal with a maximum time span of 3 seconds to load. Redirection is considered an important task and must be handled appropriately since it deals with many constraints which have been explained in the previous sections.

Updating of reservation or booking

Every conference room booking request, submission, confirmation and modification must be updated instantly to the conference room database and this must be done in real-time since booking requests and modifications take place 24/7. This requires constant functioning and quick updating. This process is assigned the highest priority in this system.

Availability of conference rooms

The results for cross-checking of the availability of conference rooms and the customer's requirements such as size and time slots and durations, must be available in under 5 seconds. This process is assigned the 2nd highest priority

after the booking request.

2. Security requirements

Customer's personal details must be encrypted and is assigned the highest priority in terms of security.
Customer's credit card or debit card details must be deleted from the database after the end of the occupation of the conference room.

3. Software quality attributes

a) <u>Maintainability requirements</u>

System failure is inevitable and must be handled well by the system.
Maximum of 40 minutes for recovery.

b) <u>Portability requirements</u>

This system must be available on all mobile devices.
This system must be accessible through google chrome, firefox, opera, internet explorer etc.

c) <u>Reliability requirements</u>

The database should be synchronized to the cloud every 5 minutes.