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# SOFTWARE REQUIREMENTS SPECIFICATION

for

Hotel Booking Portal

Version 1.0

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# Contents

<b>1</b>	<b>Introduction</b>	<b>3</b>
1.1	Purpose . . . . .	3
1.2	Intended Audience and Reading Suggestions . . . . .	3
1.3	Project Scope . . . . .	3
<b>2</b>	<b>Overall Description</b>	<b>5</b>
2.1	Product Perspective . . . . .	5
2.2	User Classes and Characteristics . . . . .	5
2.3	Product Functions . . . . .	6
2.4	Operating Environment . . . . .	6
2.5	Design . . . . .	6
<b>3</b>	<b>System Features</b>	<b>8</b>
3.1	Description and Priority . . . . .	8
3.2	Functional Requirements . . . . .	8
<b>4</b>	<b>Other Nonfunctional Requirements</b>	<b>9</b>
4.1	Performance Requirements . . . . .	9
4.2	Security Requirements . . . . .	9
4.3	Software Quality Attributes . . . . .	9
4.4	Business Rules . . . . .	9
<b>5</b>	<b>Other Requirements</b>	<b>10</b>

# 1 Introduction

## 1.1 Purpose

Finding a hotel room is not an easy task. Comparing hotels, prices and quality of the service is a hard task if we do it manually and wastes a lot of our valuable time. "Hotel Booking portal" is an attempt to make that process easier,faster and user-friendly. This will also help the hospitality business to thrive as communication between the business and customer will increase and makes the process amiable.

## 1.2 Intended Audience and Reading Suggestions

This SRS is for developers,project managers, users, and testers. Further, this document provides the functional and non-functional requirements for the "Hotel Booking Portal".

## 1.3 Project Scope

The user has to sign up for the page using their mail address and password . They will receive an OTP to confirm the registration process. After the registration, they can go to their home page by signing in . Now on the homepage, they can search rooms based on location and can add filters based on various factors such as price , ratings , number of persons , number of nights . The page will load hotels based on filters and they can choose hotel. He need to enter the details such as name , age , valid ID of the persons going to stay in the hotel room .

The hotel administration can see the details of room bookings . They can update the number of rooms , timings available in their respective hotel .

The maintainers can add or delete the hotels.

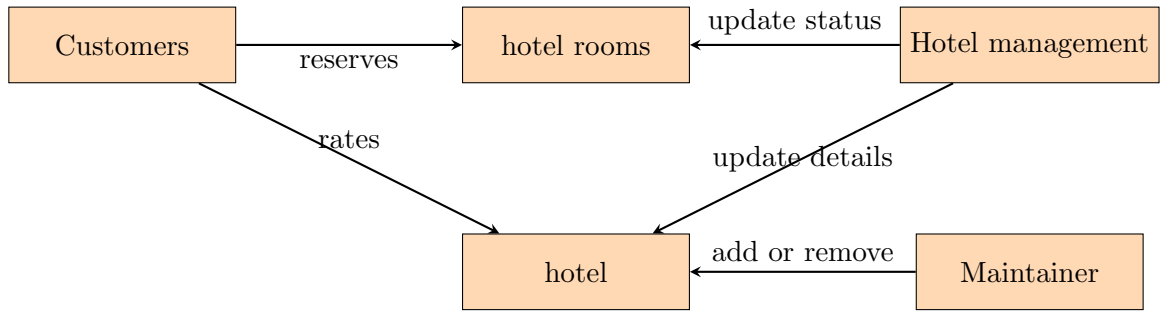


Figure 1.1 (Entire work-flow) is the overview of the project. Connection of all the entities are dependable to each others. This gives the simple idea about the functional activities of the project.

In the Figure "User" reserves "hotel rooms" and rates "hotel" ; "hotel rooms" status is guided by "Hotel management". "Hotel Management" update details of "hotel", A "maintainer" can add or remove the hotel.

So, every entity is vary much interactive with each other.

## 2 Overall Description

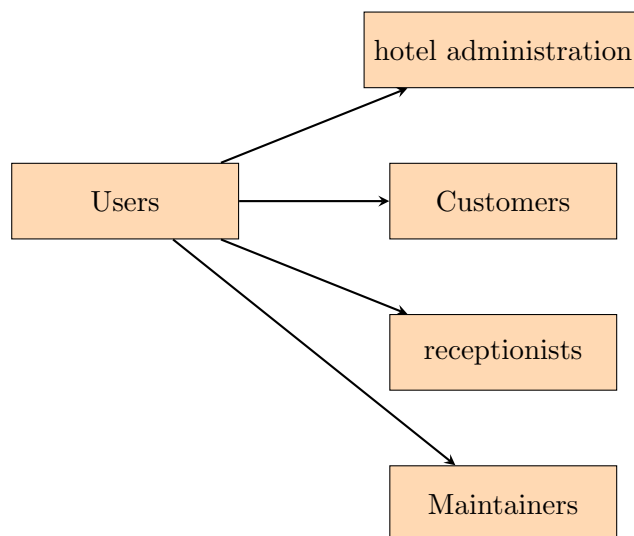
### 2.1 Product Perspective

"Hotel booking portal " is the replacement for the traditional way of booking rooms at hotels which demands you to be present physically in the hotels and take a lot of time traveling. The project's primary goal is to give an easy way to book hotel rooms in advance or on the same day.

### 2.2 User Classes and Characteristics

"Hotel Booking Portal" has basically 3 types of users:

- Hotel administration
- customers
- Receptionists in the hotel who allot rooms for customers who book offline
- Maintainers



## 2.3 Product Functions

"Hotel Booking Portal" facilitates the selecting and booking hotels easy for the costumers and providing services easy for hotel administration.

Before using the main function of the software process, users have to be registered. All users have - login\_parameter, user\_name, first\_name, last\_name, user\_id, role, post, email, phone\_number, present\_address, parmanent\_address, blood\_group, password\_hash, where some of them can be optional.

Hotels have information like hotel name,location, capacity,cost of rooms based on the type of room, availability, facilities provided and some other information.

## 2.4 Operating Environment

The website will be operate in any Operating Environment - Mac, Windows, Linux etc with a requirement of a web browser for smooth operation of website.

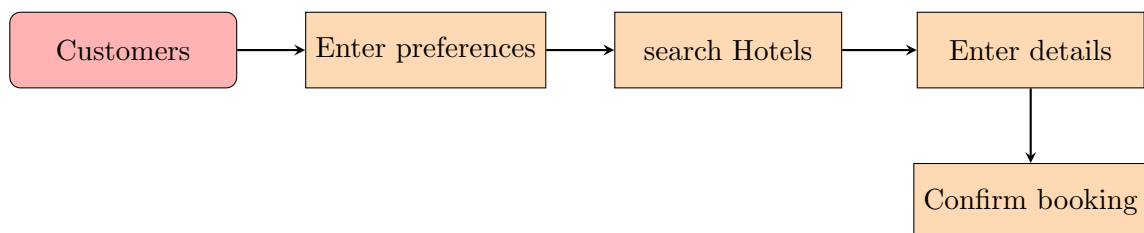
## 2.5 Design

Customer activities have 3 steps -

- search for hotels and check availability based on their filters
- Entering details of the user and provide ID proof
- Confirming the booking details
- Rate the hotels

The Customer search for hotel based on some filters added like location,availability, type of rooms and many more. If there is an availability then details of the people staying are to be entered and a confirmation slip of booking is generated.

Every Customer account contains his/her personal information, upcoming bookings and past bookings.



Customer Activities

Hotel management activities have 2 steps -

- Owner
- receptionist

Owner can update the information of number of rooms or any changes in the facilities or any temporary or permanent changes.

Receptionist can book the rooms in the hotel physically to update in the website for those who book rooms physically.

## 3 System Features

"Hotel Booking Portal" is a room reservation software. So the main product consist of checking availability and making bookings.

### 3.1 Description and Priority

"Hotel Booking Portal" has features that are main and also some are sub. But all the feature is necessary for this software.

The features with priority up to down -

1. Availability: checking the availability of rooms with preferences
2. Receipt generation : Generation of Receipt booked by user.
3. Owner : Owner updates the availability and cost and facilities.
4. User : User enters details and books ticket.

### 3.2 Functional Requirements

Customers can book hotel rooms based on location , price , ratings and features , number of nights he want to stay and the number of people . They can cancel their bookings and can do bookings.

On the other hand receptionist can update whether a room is filled or not and he can see who booked which room.

Hotel administration can add rooms delete rooms update room numbers and see the details of who booked at which date .



## **4 Other Nonfunctional Requirements**

### **4.1 Performance Requirements**

”Hotel Booking Portal” will be used for Hotel room reservation. So for more interaction React and MongoDB is used.

### **4.2 Security Requirements**

All actions of the users are personalised and secured with authentication like password and using Oauth for gmail and some other Oauth providers. Payments and changing of profile information will require a One-Time-Password confirmation.

### **4.3 Software Quality Attributes**

The quality of the software is maintained with constant interaction with the users, so that all requirements are fulfilled and website is constantly added with new features based on the demand.

Database Tests, unit and integration tests along with UI tests are required.

### **4.4 Business Rules**

Business Rules are designed based on the regulation by governments and bookings are done based on regulatory guidelines.

## 5 Other Requirements

"Hotel Booking Portal" needs maintenance as it is a long process software. It will need re-factoring and further the requirements can be changed as the field is changing frequently.