Software Requirements Specification

For

|  |  |
| --- | --- |
| Emp-Id | Name |
| 5407 | Divyashree M D |
| 5401 | Akshay Kumar K |
| 5406 | Dheeraj B N |
| 5425 | Varshitha J |
| 5416 | Rachamadugu Sanjay Guptha |
| 5466 | Banapili Saikumar |
| 5430 | Archies Singh |
| 5439  5496 | Mihir Kumar  Pranav Pandey |

SSB-Secure Seat Booking

****30/A 1st Main Road, Industrial Suburb, 3rd Phase, J.P. Nagar Bangalore**** / Bengaluru Karnataka , 560078 (080) 26079995 26079996 [www.valtech.com](http://www.valtech.com)

Date Created-22/03/2023

1. Introduction

The purpose of this document is to specify the requirements and specifications for the development of an office seat booking web application. The web application will allow employees of a company to book a seat in the office, view seat availability, lunch preference, and manage their bookings.

**2. Scope**

The office seat booking web application will be accessible to employees of the company and will be compatible with all major web browsers. The web application will allow employees to view the layout of the office, view available seats, book a seat, lunch preference, and cancel their bookings.

**3. Functional Requirements**

**3.1 User Interface**

The web application shall have a user-friendly interface.

The web application shall display the layout of the office and the available seats.

The web application shall allow users to search for a seat based on availability, location, and amenities.

The web application shall allow users to book a seat for a specific shift time .

The web application shall display the booking confirmation to the user.

The web application shall allow users to cancel their booking.

**3.2 Admin Interface**

The web application shall have an admin interface to manage the office layout and seat availability.

The admin interface shall allow the admin to add, remove, and modify floor, seats and their details.

The admin interface shall allow the admin to view and manage user bookings.

**3.3 Authentication and Authorization**

The web application shall require users to authenticate themselves before booking a seat.

The web application shall use a role-based access control system to manage user permissions.

The web application shall restrict access to admin functionality to authorized personnel.

**3.4 Notification System**

The web application shall send booking confirmation to the user via email.

The web application shall send reminders to the user before the booked time slot.

**4. Non-Functional Requirements**

**4.1 Compatibility**

The web application shall be compatible with all major web browsers.

The web application shall be responsive to different screen sizes.

**4.2 Security**

The web application shall store user information in an encrypted database.

**4.3 Performance**

The system will be designed to be user-friendly and easy to use and the system will provide clear instructions to guide users through the seat booking process.

**5. System Constraints**

The web application shall be developed using.

* JAVA-11,
* Spring Boot-3.0.4,
* MySQL,
* Post Man,
* Apache Maven-3.9.1,
* Apache Tomcat-10.1.7,
* Jenkins,
* Zipkin Server-2.24.0,
* REACT JS-18.2.0,
* HTML5,
* CSS3,
* JavaScript,
* Node Js-19.8.1,
* Docker Desktop-4.17.0,
* Git Hub,
* Azure CLI-2.46.0,

**6. Conclusion**

The Seat Booking Application is a software system designed to simplify the process of booking office seats for employees. The system will be user-friendly and efficient, and it will provide management with data on seat usage and availability.

This SRS document outlines the requirements and specifications for the development of an office seat booking web application. It provides a detailed overview of the functional and non-functional requirements, system interfaces, and constraints for the web application.