Software Requirements Specification

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Seat Booking App

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1. Introduction

This document aims to outline the requirements and specifications that are necessary for the creation of the web application designed for booking the office seats. This application will provide company employees to book a seat and indicate their lunch preference.

**2. Scope**

All employees of the company will be able to access the office seat booking web application. The application will provide the employees with the ability to check the available seats, make seat reservations at different shift times and select their lunch preference.

**3. Functional Requirements**

**3.1 User Interface**

The application must feature a user-friendly interface to ensure ease of use. Users must be able to book the seats based on the seat availability on the application. They can be able to book the seat for a specific shift time. Once seat booking is done, the application must display the confirmation of the reservation of the seat to the user.

**3.2 Admin Interface**

The web application must an admin interface to manage the office layout and seat availability. The admin interface shall allow the admin to view and manage user bookings. The admin will have the access of viewing the reports.

**3.3 Authentication and Authorization**

The web application shall authenticate the users during the login. 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.

**4. Non-Functional Requirements**

**4.1 Compatibility**

The web application shall be compatible with all web browsers.

**4.2 Security**

All the user information will be stored in a JSON file inside AEM instance.

**4.3 Performance**

The system design must prioritize the ease of use, ensuring a user-friendly experience. Clear instructions must be provided to guide the users through the seat booking process.

**5. System Constraints**

The web application shall be developed using.

* JAVA-11,
* Spring Boot-3.0.4,
* AEM,
* VS Code,
* Apache Maven-3.9.1,
* Jenkins,
* HTML5,
* CSS3,
* JavaScript,
* Git Hub,
* Azure CLI-2.46.0

**6. Conclusion**

The objective of the Seat Booking Application is to simplify the process of booking office seats for employees. To achieve this, the system must be user-friendly and efficient, while also providing management with data on seat usage and availability.

This SRS document serves as a guide for the development of an office seat booking web application, outlining the necessary requirements and specifications in detail. It covers functional and non-functional requirements, system interfaces, and constraints that must be considered during development.