**SRS Document**

1. **Introduction**

The Secure Seat Booking system is a web-based application that allows employees to book seats in the office. The system provides a user-friendly interface for employees to check availability, book seats, and manage their reservations. The purpose of this document is to provide a detailed description of the Secure Seat Booking system.

1. **Scope**

The Secure Seat Booking system will be used by employees to book seats in the office. The system will include the following features:

User authentication and authorization

Seat availability check

Seat booking and cancellation

Seat reservation management

Email notification for seat booking and cancellation

Admin dashboard for seat management

Opting for food, snacks and tea

1. **Requirements**

**3.1 Functional Requirements**

The Secure Seat Booking system will include the following functional requirements:

User authentication and authorization: The system will allow users to create an account, log in, and log out. Users will have different levels of access based on their role in the organization.

Seat availability check: The system will display the availability of seats in the office. Users will be able to check availability based on date, time, shifts and location.

Seat booking and cancellation: Users will be able to book seats by selecting the desired seat and specifying the date and time of the booking. Users will also be able to cancel bookings if needed.

Seat reservation management: Users will be able to view and manage their seat reservations, including past and future bookings.

Email notification for seat booking and cancellation: The system will send email notifications to users when a seat is booked or cancelled.

Admin dashboard for seat management: Admin users will be able to manage seat availability, including adding, deleting, and updating seats.

User Dashboard: Users will be shown the pending, rejected and approved seat bookings

**3.2 Non-Functional Requirements**

The Secure Seat Booking system will include the following non-functional requirements:

Usability: The system will be user-friendly and intuitive, with clear instructions and guidance for users.

Performance: The system will respond quickly to user requests, with minimal downtime or system errors.

Security: The system will use secure authentication and authorization mechanisms to protect user data and prevent unauthorized access.

Compatibility: The system will be compatible with modern web browsers, including Chrome, Firefox, and Safari.

Accessibility: The system will be accessible to users with disabilities, with support for screen readers and other assistive technologies.

1. **Use Cases**

The following use cases describe how the Secure Seat Booking system will be used by end-users:

User logs in to the system

User checks seat availability

User books a seat

User opt for food

User cancels a seat booking

User views seat reservation history

Admin logs in to the system

Admin adds a new seat

Admin updates seat availability

Admin deletes a seat

1. **Constraints**

The following system constraints apply to the Secure Seat Booking system:

The system must be developed using modern web technologies, such as HTML5, CSS3, and JavaScript.

The system will be developed with Visual Studio 2022 also Microsoft SQL Server for data Storage.

The system must be hosted on a secure and reliable web server Microsoft Azure.

The system must comply with data privacy regulations, such as GDPR and CCPA.

1. **Conclusion**

The Secure Seat Booking system will provide a convenient and user-friendly way for employees to book seats in the office. The system will include a range of features to ensure that users can easily check availability, book seats, opt for food and manage their reservations. By following the requirements outlined in this SRS document, we can ensure that the Secure Seat Booking system is developed to meet the needs of users and stakeholders.