Software Requirements Specification (SRS)

Introduction

Desk Reservations in Office is a software system designed to manage desk reservations for employees in an office. The system allows employees to reserve a desk in advance, view available desks, and cancel existing reservations.

Functional Requirements

2.1 Desk Reservation

- The system shall allow an employee to reserve a desk for a specified date and time.
- The system shall allow an employee to view available desks for a specified date and time.
- The system shall allow an employee to select a desk from the list of available desks.
- The system shall notify the employee if the desk is already reserved for the specified date and time.

2.2 Desk Cancellation

- The system shall allow an employee to cancel an existing desk reservation.
- The system shall notify the employee if the reservation has been cancelled successfully.

2.3 Desk Management

- The system shall allow the office administrator to add, delete, and modify desks in the office.
- The system shall allow the office administrator to view the status of each desk, including whether it is available or reserved.

2.4 User Management

- The system shall allow the office administrator to add, delete, and modify employee accounts.
- The system shall allow the office administrator to assign employees to desks.

2.5 Reporting

- The system shall generate reports on desk reservations, including reservation history and desk usage statistics.

Non-functional Requirements

3.1 Performance

- The system shall respond to user requests within 3 seconds.
- The system shall support up to 1000 concurrent users.

3.2 Security

- The system shall authenticate users before allowing them to make reservations or view desk availability.
- The system shall encrypt all communication between the client and the server.

3.3 Reliability

- The system shall be available 99.9% of the time.
- The system shall backup data daily.

Constraints

4.1 Technology

- The system shall be developed using asp.net and sitecore.
- The system shall be deployed on a web server.

4.2 User Interface

- The system shall have a user-friendly interface that is easy to use.

Glossary

Desk - A physical workspace in the office.

Reservation - A booking made by an employee to reserve a desk for a specific date and time.

Office Administrator - A user with administrative privileges who can manage desks and users in the system.

Functional Requirements for Desk Reservation System:

- The system shall allow employees to view the availability of desks.
- The system shall allow employees to reserve a desk for a specific date and time.
- The system shall notify the employee if the desk is already reserved for the specified date and time.
- The system shall allow employees to cancel an existing reservation.
- The system shall allow the office administrator to manage desks, including adding, deleting, and modifying desk information.
- The system shall allow the office administrator to manage employee accounts, including adding, deleting, and modifying employee information.
- The system shall generate reports on desk reservations, including reservation history and desk usage statistics.

Non-functional Requirements for Desk Reservation System:

- The system shall respond to user requests within few seconds.
- The system shall support multiple concurrent users.
- The system shall be secure and protect sensitive data, including user authentication and encryption of all communication between the client and the server.
- The system shall be available 99.9% of the time.
- The system shall have a user-friendly interface that is easy to use and navigate.