Project Requirement Document: Het Depot Reservering Applicatie

Introduction

The Het Depot Reservering Applicatie is a console application that manages reservations for tours in the public art depot at Museum Boijmans Van Beuningen in Rotterdam. The application allows visitors to reserve a place on a tour and for the guides to check and confirm their reservation.

User Roles

Visitors: The visitors are the end-users who want to reserve a place on a tour.

Guides: The guides are the staff members who conduct the tours.

Afdelingshoofd: The afdelingshoofd is the department head who provides the list of unique codes for the day's entry tickets and requires information about the occupancy of the tours.

Functional Requirements

3.1 Registration

Visitors can register for a tour online, a day before the visit.

Visitors can make reservations for a tour on-site using consoles available in the entrance area.

The application checks if the unique code provided by the visitor matches any entry ticket for that day.

Visitors can cancel their reservation and make a new reservation if required.

3.2 Tour Management

The application allows guides to start a tour for a limited number of visitors.

Visitors have to enter their unique code to confirm their reservation and receive a lab coat from the guide for identification.

The application alerts the guide when a visitor with a reservation arrives.

The application prevents a visitor from participating in a tour if they have already done so that day or do not have a valid reservation.

3.3 Administration

The afdelingshoofd provides a JSON file with the unique codes for the day's entry tickets.

The application provides information about the occupancy of the tours to the afdelingshoofd.

Non-functional Requirements

4.1 Performance

The application should be able to handle multiple reservations and tour schedules simultaneously.

The application should respond promptly to the visitor's requests for registration or cancellation.

4.2 Usability

The application should have an intuitive and user-friendly interface for visitors and guides.

The application should provide clear instructions and feedback to the user.

4.3 Security

The application should store visitor's personal data securely and follow GDPR guidelines.

The application should validate the input and prevent unauthorized access to the system.

Technology Stack

Programming Language: C#

Data Storage: JSON

Future Enhancements

Integration with a payment gateway for ticket booking.

Integration with a feedback system for visitors to rate the tour experience.

Conclusion

The Het Depot Reservering Applicatie is a console application that manages reservations for tours in the public art depot at Museum Boijmans Van Beuningen in Rotterdam. The application provides a seamless reservation experience for the visitors and helps the guides manage the tours efficiently.