

Eventlz

The all in one solution for every event

Overview

Introducing "Eventiz" – the future of event management and attendee experience. Eventiz is a smart mobile application that provides real-time information about the environment within an event hall, simplifies attendee check-in with bracelet integration, and prioritizes safety through an emergency alert system.

With Eventiz, users can easily monitor CO2 levels and temperature in the event space, ensuring a comfortable and safe atmosphere. The app's bracelet-linking feature streamlines the process of locating clothes storage racks, making event attendance more convenient and efficient. Additionally, Eventiz includes an emergency button that sends the user's location to first responders in case of emergencies, boosting event safety.

Objectives

1. **Enhance Convenience:** Simplify the process of storing and retrieving partygoers' clothes by eliminating the need to remember rack numbers, making it a seamless and stress-free experience.
2. **Implement RFID Technology:** Develop a reliable RFID-based system that accurately identifies and remembers the owners of stored clothing, ensuring efficient and secure storage.
3. **Temperature Display Functionality:** Create an intuitive feature that displays the interior temperature of the event hall, enabling attendees to make informed clothing choices suited to the event's conditions.
4. **Co2 Display Functionality:** Create an intuitive feature that displays the interior Co2 levels of the event hall, ensuring a healthy environment.
5. **User-Friendly Interface:** Design an easy-to-use interface for both the cloakroom attendants, event managers and partygoers, ensuring accessibility and a smooth experience for all users.
6. **Optimize Efficiency:** Maximize the speed and efficiency of the cloakroom system to accommodate a large number of users during peak party hours while maintaining a secure and smooth experience.
7. **Enhanced Safety:** Prioritize attendee safety by providing a one-touch emergency button, enabling users to swiftly request assistance in critical situations. Receive notifications as the event manager if the temperature and/or Co2 levels are too high.

CMS Integration

- Utilize a **headless** CMS system to manage the event data efficiently.
- Implement CRUD operations through the CMS to access event data.

Cloud Computing

- Leverage cloud platforms to store and process data.
- Perform cloud-based computations, such as real-time space availability calculations and determine which users forgot to take their clothes home.
- Make use of MQTT for the communication between the cloud platform and the app

Edge Computing

- Deploy edge devices (Raspberry Pi) to interact with the sensors (Co2, temperature)
- Make use of Edge computing so that the attendees get real time info about the atmosphere inside the event hall without polluting the network.

Guest Mobile Application

- Display real time information about the temperature & Co2 inside the event hall to ensure a healthy atmosphere.
- Quick access to the emergency button to ensure user safety.
- Mobile app (made using Jetpack Compose) that interacts with the user's NFC bracelet to display their rack number to efficiently retrieve the clothing.

Temperature & Co2 sensor

- Install sensors in the event hall to monitor the temperature & Co2.

Inventory Management Application:

- Implement a robust inventory management system within 'Eventliz' to keep track of the number of items stored in the cloakroom and their owners. This will help prevent loss or mix-up of items.
- Mobile app (made using Flutter) that interacts with the user's NFC bracelet to assign racks and retrieve clothes.

Event Management Application:

- Implement a management system within 'Eventliz' to keep track of all the event info (temperature, Co2, rack availability, emergency calls...)
- Display this info in a user-friendly way using a web application (made using Svelte)

Welcome/ info screen:

- A display at the entrance of the event that shows useful information like time, temperature, rack availability.
- Desktop app Made using Electron

