Team Number: 15

SMART ATTENDANCE SYSTEM

Abstract:

A smart attendance system that uses biometric or NFC card reader-based authentication to track employee attendance in real time, authenticate them and control the access to the door. Employee attendance data is displayed in a website where a podium system ranks employees based on their attendance streaks. In addition, the system can be used to award badges and rewards to employees who achieve certain milestones.

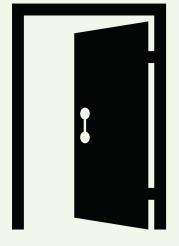
Methods:

Step 1



The user scans his fingerprint on the system

Step 2:



Authenticates the user and opens the door when you approach the door

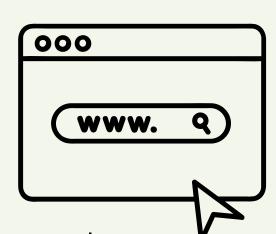
Step 3:



Displays information about the person and his attendance streaks

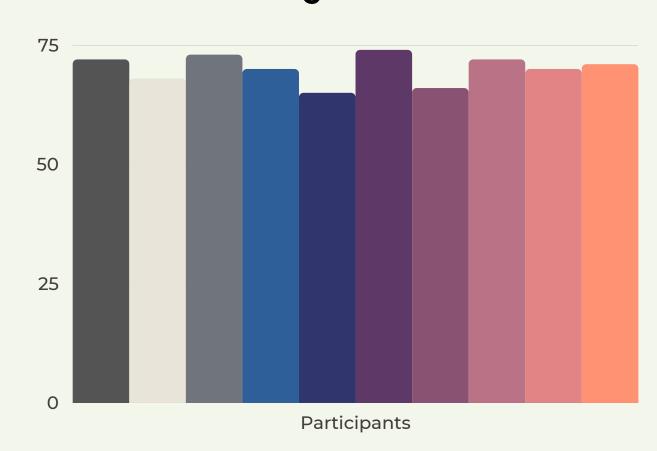


Stores your credintials online and calculates streaks



Displays your progress, awards and points in a webpage

User Study: Average time taken to enroll a new fingerfrint



Hardware/Software used:

- ESP8266
- NFC reader
- Fingerprint sensor
- LED
- Buzzer
- Ultrasonic sensor
- OLED
- Servo Motor
- Google sheets
- Arduino IDE