

Domain Name :

Team ID : 3

Enrollment No. :

Date :

Version :

Activities

- *Face recognition or RFID card scanning for attendance.
- *Automatic attendance recording at the start of class.
- *Notifications about attendance status to students and teachers.
- *Teachers and admins monitoring attendance logs.

*reports generated automatically based on attendance duty.

Interactions :

- *Students walking in to the classroom, getting their attendance marked automatically through cameras or sensors.
- *Teachers checking attendance duty through apps or dashboards.
- *Students receiving notifications if they have low attendance.

*admins accessing cumulative attends reports for compliance & analysis

Users :

- *Students where attendance is automatically recorded.
- *admins: managing and maintaining attendance duty and reports.
- *Teachers: reviewing attendance records, confirming attendance.
- *IT Teams: ensure the systems work smoothly without any errors.
- *parents: to monitor their child's attendance status.

Environment :

- *Secure or cloud based systems for storing and processing data.
- *Educational institutions (schools, colleges, universities).
- *Secure networks (wifi, LAN) to transmit attendance data in real-time.

*Classrooms equipped with cameras or biometric /RFID readers.

Objects :

- *cameras, RFID readers, or biometric scanners.
- *User login credentials (for teachers /admins.)
- *Database for attendance records.
- *mobile or web-based dash board for viewing attendance status.
- *notifications through SMS or app.

IDEATION CANVAS



SILVER OAK UNIVERSITY
EDUCATION TO INNOVATION

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Smart Attendance System, com

24020304300871
2402030430106

24020304300894
2402030430064

2402030430043



Activities

① Students logging into the platform.
② Marking Attendance by the System.

① Teachers verifying Students Presence.
② Generating Attendance Reports.

① Automated notifications for absences.
② Real-time Attendance tracking.

STUDENTS

TEACHERS

ADMINISTRATORS



People

NON-TEACHING STAFF.



Situation / Context / Location

① Covid-19 or Pandemic situation leading to an online Education.

① Remote Work environments. Where attendance tracking is required.

① Schools, colleges, etc implementing hybrid or online learning.



Props / Possible Solutions

① Face Recognition or biometric attendance.
② GPS tracking to verify location.

① Automated E-mail or SMS alerts to students and Parents.
① mobile app or web-based platforms for marking attendance.

① Integration with Learning management systems (LMS).
① Analytics for tracking attendance patterns and student performance.

PRODUCTION DEVELOPMENT CANVAS

Domain Name :

1. $\frac{1}{2} \times 100 = 50\%$

Date:

Team ID: 7

Enrollment No.

- 2402030430081, 2402030430064
- 2402030430043, 2402030430089 2402030430106

Version .

Q Problem Recognition

High costs associated with implementing advanced technologies, such as facial recognition hardware.

Protecting sensitive attendance data from unauthorized access breaches.

Different methods of attendance tracking may lead to inconsistencies in data collection.

on going costs for system maintenance, updates and user support.

Difficulty in integrating the attendance system with existing management system. LMS & HAMS

Problem Resolution

Data management is not

Design a centralized database to store attendance records, ensuring easy access and analysis.

Security and Privacy.

- Implement robust security measures to protect sensitive attendance data.
- Encryption for data protection.

Product Illustration (Prototype)

Key Features

QR code Attendance.

users can scan a QR code displayed on their device to mark attendance quickly.

Facial Recognition.

Optional feature for automatic attendance marking using facial recognition technology

Analysis Dashboard

graphs and charts showing attendance rates by class or individual.

🔄 Product Remodelling (Redesign)

Uses Engagement Feature

Security and Privacy

- uses research, prototyping, development

Enhanced Attendance Tracking

Simple Navigation

MIND MAPPING

