

PRESENCE

Attendance App



Our Team

1.



BHUVANESHWARI

Wireframes

2.



JOSEPH FEDRICK

UCD Canvas

3.



ADITYA

KARDILE

Assimilations

1.



Introduction

Introduction



- In the rapidly evolving landscape of education technology, ensuring ***consistent student attendance*** remains a foundational requirement.
- In India, where institutions range from government-run schools in rural areas to private universities in urban centers, there is a growing need for a *streamlined, efficient, and transparent system* to manage student attendance.
- Traditional methods—such as manual roll calls or paper registers—are time-consuming, prone to errors, and often lack real-time reporting capabilities.
- A digital attendance tracker can revolutionize this process by offering automation, analytics, and accountability. This product proposes a modern, user-friendly UX/UI-based solution that addresses these gaps through a mobile and web-based application tailored to the Indian educational ecosystem.

Product Idea

The proposed Attendance Tracker App is a cross-platform (web + mobile) solution designed for educational institutions in India. It enables teachers to mark, record, and monitor student attendance digitally with minimal effort.

Key features:

- Face Recognition, Biometric, RFID, and QR code integration (depending on institution's infrastructure)
- Manual attendance marking with just a few taps or clicks
- Automated reporting to students, parents, and administrators
- Real-time notifications for absenteeism
- Analytics dashboard for identifying patterns in absenteeism
- Data privacy and role-based access control





Problem Statement

- Indian educational institutions often rely on outdated methods to record attendance, leading to:
- **Inefficiency and time loss** during class hours
- **Human errors** in maintaining records
- **Lack of real-time monitoring** and alerts for absenteeism
- Difficulty in compiling attendance data for analysis
- Limited **involvement of parents** in attendance tracking
- Minimal data security and potential for misuse
- These problems highlight the need for a unified, digital attendance management solution that is easy to use, scalable, and secure.



Target Audience



**SCHOOL /
COLLEGE**

FACULTY

EDUCATIONAL INSTITUTION

STUDENTS / PARENTS



2.



Our Process

5S, UCD Canvas

STRATEGY – USER PERSONAS



Radhika Sharma

Demographics: -

Age: 35

Location: Bangalore, India

Occupation: IT Professional

Education: Graduate

Tech-savvy: High

Goals:

- Stay informed about her child's attendance.
- Receive instant alerts for absenteeism.
- Access attendance history easily.

Motivations:

- Ensure her child's academic discipline.
- Maintain communication with teachers.

Pain Points:

Delayed or no updates from school.
Inconvenient access to attendance records.

Key Behaviors:

Checks mobile apps frequently.
Prefers push notifications over emails.



Amit Kumar

Demographics: -

Age: 40

Location: Bangalore, India

Occupation: School Administrator

Education: Postgraduate

Tech-savvy: Moderate

Goals:

- Ensure efficient attendance tracking.
- Generate compliance and performance reports.
- Reduce absenteeism through data insights.

Motivations:

- Improve school operations.
- Ensure accountability and transparency.

Pain Points:

Manual errors in attendance records. Lack of real-time data.

Key Behaviors:

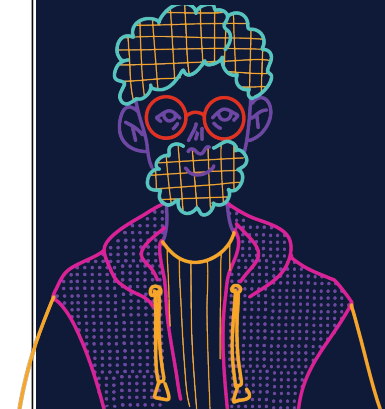
- Uses desktop applications frequently.
- Prefers detailed reports and analytics



5S-STRATEGY -USER CENTRIC DESIGN (UCD)

CANVAS

<u>PROBLEMS</u>	<u>MOTIVES</u>	<u>BUSINESS</u>	<u>COMPETITIVE ADVANTAGE</u>	<u>SOLUTIONS</u>
Manual error in attendance.	Efficiency in attendance marking.	<div></div> Scalable, secure, and user-friendly attendance tracking for Indian schools.	Real-Time Communication & Transparency.	Data Privacy & Security Solutions
Lack of real-time updates.	Transparency in updates.		Localization & Accessibility.	
Poor tracking and reporting.	Better school-parent communication	<u>USERS</u>	Seamless Integration & Customization.	Technology Reliability Solutions
Manual records could be lost.	<u>FEARS</u>	Teachers, Parents, School Admins, Students	Operational Efficiency	User Adoption Solutions
Lack of accuracy and efficiency	Data privacy concerns.	<u>UNIQUE VALUE PROPOSITION</u>	<u>ALTERNATIVES</u>	
	Resistance to new technology.	Real-Time, Transparent Attendance Management.	Manual Attendance registers	Integration & Scalability Solutions
	Unreliable internet connectivity.	Tailored for Indian Education Ecosystem.	Generic attendance apps.	
	School admins may worry about the cost and complexity of implementation	Actionable Insights & Automation	Other school management systems	



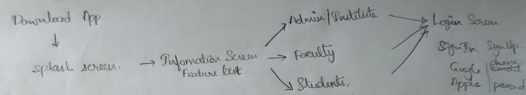
★ Information Architecture

INSTITUTE ADMIN

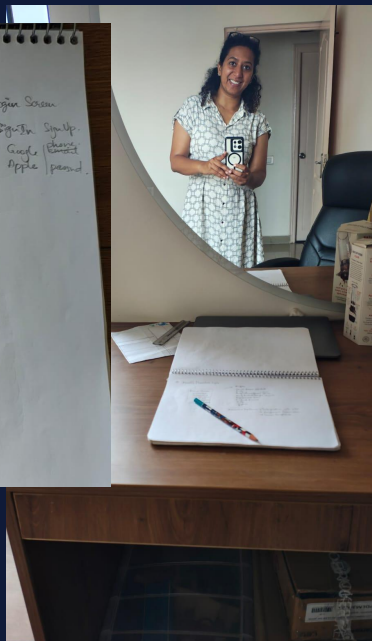
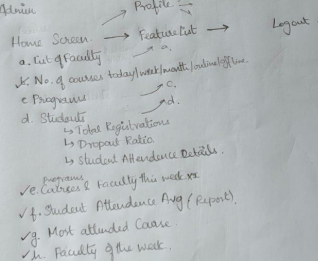
FACULTY

STUDENTS

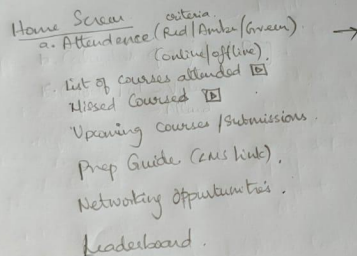
① Onboarding



② Faculty/Admin

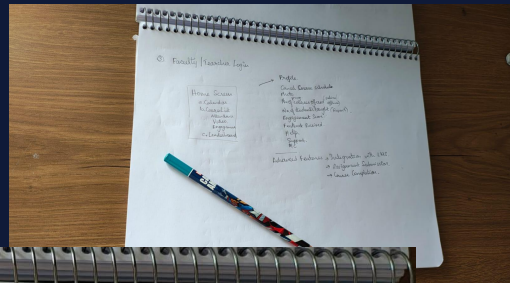


① Student / Parent Login.



Profile

- Photo.
- Attendance Report.
- Notifications
- Engagement Score (Video, chat reply).
- Help/FAQ
- Support
- Alc Details.



Wireframes Demo Link



3.

Assumptions

Challenges and Conclusion



Challenges



User Diversity:

Designing for both tech-savvy and non-tech-savvy users required creating an interface that is both intuitive and informative.

Accessibility:

Ensuring the app is usable in low-bandwidth areas and on older devices common in rural schools.

Language Support: Adapting the interface for multiple Indian languages without compromising design consistency.

Data Privacy:

Designing features that ensure student data is protected and access is controlled based on user roles.

Device Compatibility:

Ensuring seamless performance across different screen sizes and platforms (Android, iOS, web).

Integration Complexity:

Planning for optional hardware integrations like biometric or RFID without making it mandatory.

Conclusion

The Attendance Tracker App aims to modernize attendance management in Indian educational institutions by offering a digital, user-friendly, and secure solution.

Through thoughtful UX/UI design, the app addresses real-world problems faced by teachers, students, and administrators, while ensuring accessibility and inclusivity.

Though challenges such as infrastructure limitations and user diversity were significant, careful research and iterative design helped create a product that is not only functional but also adaptable to various contexts.

With further development, the app can contribute significantly to the digital transformation of education in India.



Thank you!

