Project Summary Template

This document is intended to provide a summary understanding of the high-level vision of your project goals.

Company Name/ Team Name	Daycare Buddy
Company Address	(if applicable)
Company Website	(if applicable)
Telephone	(if applicable)
Company Contact/ Team member names	Daniel Konjarski, Kei Ishikawa, Jam Furaque, Carl Angelo Miguel Trinidad, Matthew Ciavarella, Andrew Stewart
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Project Title	Daycare Toddlers Attendance System
Project Description	**About the company:** Our company specializes in developing innovative attendance systems for daycare centers, utilizing RFID technology to ensure accurate tracking of toddlers. Our solution provides real-time SMS notifications to parents when their child enters or leaves the daycare, enhancing communication and security. With a focus on reliability and ease of use, we help streamline operations for daycare providers while giving parents peace of mind. **About the project:** This project aims to develop an attendance system for daycare toddlers using RFID technology. Each child will be provided with an RFID card, which they will tap when entering or leaving the school. The system will automatically record their attendance with a timestamp and send real-time SMS notifications to parents. Notifications will inform parents of their child's entry or exit from school, ensuring accurate tracking and enhancing communication between the daycare
Problem/ Opportunity	*Please describe current state problem/opportunity that describes the nature and extent of the problem (factual, quantified, concise), or that outlines a chance for*

Assessment *	1.	**Inefficient Manual Attendance and Communication:** In many daycare centers, tracking the attendance of toddlers is managed manually, which is both time-consuming and prone to human error. The lack of an automated system makes it difficult to provide real-time information to parents regarding their child's arrival or departure. This results in potential miscommunication or delays in notifying parents, especially in cases of emergency or unexpected circumstances. Without an efficient notification system, parents may experience anxiety or confusion regarding their child's whereabouts, leading to dissatisfaction and reduced trust in the daycare's services.
	2.	**Problem of Inadequate Security and Tracking Measures:** Daycare centers face challenges in ensuring the security and proper tracking of toddlers during entry and exit. Current systems often rely on physical logs or staff memory, which can be unreliable and fail to provide a comprehensive record of the child's attendance. This lack of detailed tracking increases the risk of unauthorized pick-ups or missing information, potentially compromising child safety. An automated solution that tracks attendance digitally and communicates with parents instantly can help mitigate these risks and offer a higher level of security and accountability in daycare operations.
	3.	**Opportunity for Progress:** Enhanced Parent Communication and Operational Efficiency The implementation of a digital attendance system presents an opportunity for significant progress. By automating attendance tracking and integrating an SMS notification system, daycare centers can streamline their operations and provide immediate updates to parents. This advancement allows for real-time notifications when a child enters or leaves the facility, promoting transparency and improving the overall communication process. Such a system not only enhances the daycare's service offering but also builds stronger
Desired Project Outcomes/ Requirements*	*Define how this project shall address a business need, e.g. the business problem or opportunity described above; describe what the beneficiary must be able to do / receive from the solution*	
	1.	**Improved Operational Efficiency:** The system will automate the process of recording attendance, reducing the administrative burden on daycare staff. By eliminating manual attendance logging, the daycare can optimize resource allocation and focus on providing better care for the children.
	2.	**Enhanced Parental Communication and Satisfaction:** Our system will provide real-time SMS notifications to parents, informing them of their child's arrival and departure. This increases transparency and ensures parents feel informed and secure, leading to higher satisfaction and trust in the daycare's services**.**
	3.	**Increased Security and Accountability** By utilizing RFID technology, the project ensures that only authorized individuals can track and manage the child's attendance. This enhanced security provides a clear record of when children enter and leave the daycare, giving parents and the daycare center peace of mind.

	4.	**Business Differentiation and Growth** Offering an advanced attendance tracking system sets the daycare apart from competitors. This technology-driven solution can attract more parents looking for secure, reliable, and transparent services, leading to increased enrollment and business growth opportunities.
Key Deliverables to be produced by students*	*Define the boundaries of work that you expect to receive from the students effort (vs. internal effort)*	
	1. 2. 3.	**MERN Stack Development (Student Effort):** The team will be responsible for the complete development of the application using the MERN stack. This includes building the front-end interface, designing the database schema, creating API endpoints, and integrating RFID and SMS notification functionalities into the system. They will handle the core coding, testing, and debugging of the platform. **RFID Integration and Testing (Internal Effort):** While students will develop the RFID-related functionality within the application, the team will also be responsible for procuring the RFID hardware, setting it up for testing, and ensuring it works seamlessly with the software. This includes any configuration of the physical RFID system and testing its performance with the application. **SMS Notification Subscription (Internal Effort)** The team will manage purchasing and maintaining the SMS subscription service. This includes setting up accounts with an SMS provider, ensuring the integration with the system, and monitoring costs related to SMS usage. Students will integrate the API for
Desired Start		
Desired End Date	March 30, 2025	
Attachments	*List attachments that support project description*	
	1	
	2	

* Please add fields as required