Project Goals:

We planned to build a smart crib system for baby safety, featuring ultrasonic, pressure, and sound sensors to detect climbing attempts, movements, and crying. The system would notify parents through an LCD screen and buzzer. Key goals included quick notifications, effective subsystem communication, and accurate sensor performance. We have successfully completed a smart crib system for baby safety, which features ultrasonic, pressure, and sound sensors to detect climbing attempts, movements, and crying. The system effectively notifies parents through an LCD screen and buzzer. We have achieved our fundamental goals of quick notifications, efficient subsystem communication, and accurate sensor performance.

Expectations:

Our team has successfully met all expectations, as every member diligently completed their assigned tasks before deadlines and actively collaborated by assisting others and offering advice. We held regular meetings to plan, review, and discuss each project phase, ensuring detailed planning and effective communication. We proactively addressed time conflicts and maintained transparency by updating our work progress on shared documents. All internal communication inquiries were responded to within the required 18-hour timeframe, showcasing our team's commitment and efficiency.

Roles:

Our team's roles have remained consistent, and we've maintained a balanced workload without a designated leader. Instead, we discuss daily tasks and plans through a text-message group, arranging meetings and work schedules based on individual availability. Yuhao was responsible for the MCU circuit and Bluetooth transmission module in the crib subsystem, Feng handled the construction and testing of the three sensors on the breadboard and physical crib, as well as crafting the final crib model, and Xinlong managed the circuit design and Bluetooth receiver

module testing for the monitor subsystem. For the integration and testing of all subsystems in the final crib, we collaborated as a team. This approach allowed us to efficiently utilize each member's strengths, ensuring a clear division of labor and overall project efficiency.

Agenda:

Our team made decisions about the project through a collaborative process. We held weekly meetings, adjusting the time based on each member's availability, and used these meetings to review progress and ensure our plan remained on track. As the project progressed, we kept each other updated daily on the progress of our respective tasks in our text-message group. When coordination and testing of multiple subsystems were required, we gathered at Feng's home due to space needs, allowing us to effectively carry out the testing and continue our collaborative work. Goals were set collectively, with each member contributing their opinions and reaching a consensus before moving forward. When issues arose, we discussed them in our text message group, allowing everyone to express their views. Once all members agreed on a solution, we documented the decision in our shared public document and proceeded to implement the agreed-upon plan to fix the issue.

Team Issues:

During the course of our project, we did not encounter any significant team-related issues or problems with communication and coordination among members. Our team worked well together, following the processes outlined in our team contract, which helped ensure a smooth and effective collaboration. In hindsight, our positive team experience can be attributed to our clear division of roles, open communication, and commitment to the project's success. We have done everything possible to maintain a good team experience.