HEALTHCARE PROTECTION

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CHILD HEALTH MONITORING SYSTEM

Intro Section

01

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Intro Slide →

- Aims to enhance child healthcare by utilizing advanced technology.
- Monitors vital signs, activity levels, and crucial health indicators.
- Provides real-time data for parents and healthcare providers.
- Alerts caregivers promptly if any concerning signs are detected.
- Offers continuous 24/7 health monitoring for children.
- Provides parents with peace of mind regarding their child's well-being.

Team Slide →

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PROJECT SLIDE

CHILD HEALTH MONITORING SYSTEM

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Problem Statement Section

02

01 Problem Slide

02 Importance of the problem in the target domain

03 Potential impact of a successful solution

Problem Slide

Limited Monitoring Capability

Problem 01

Lack of Parental Oversight.

Problem 02

Limited Wellbeing Information.

Problem 03

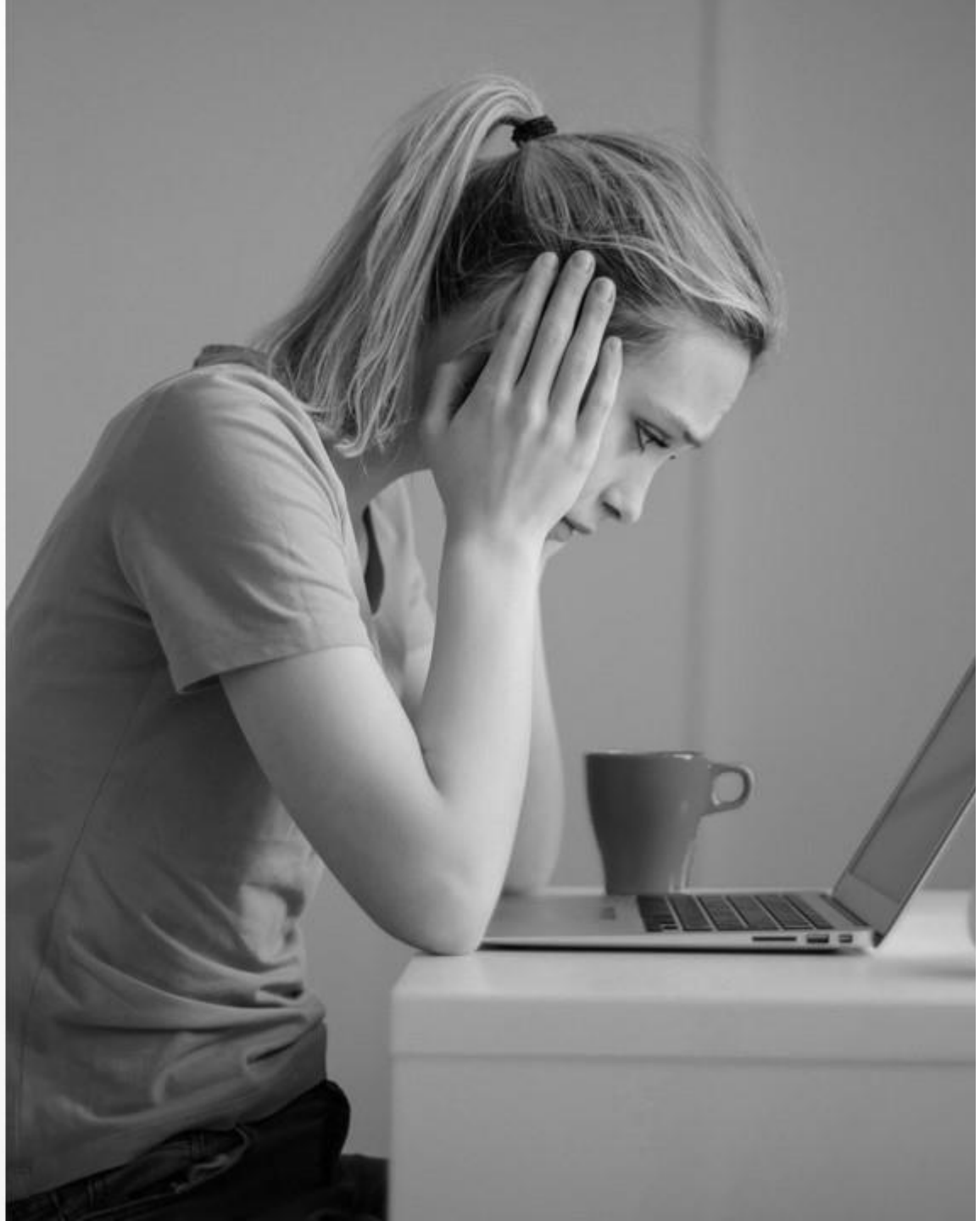
Privacy and Security Concerns.

Problem 04

Real-time Monitoring Hurdles.

Problem 05

Alert and Notification Delays.



Importance of the Problem in the Target Domain

Challenge Against Time Intervention

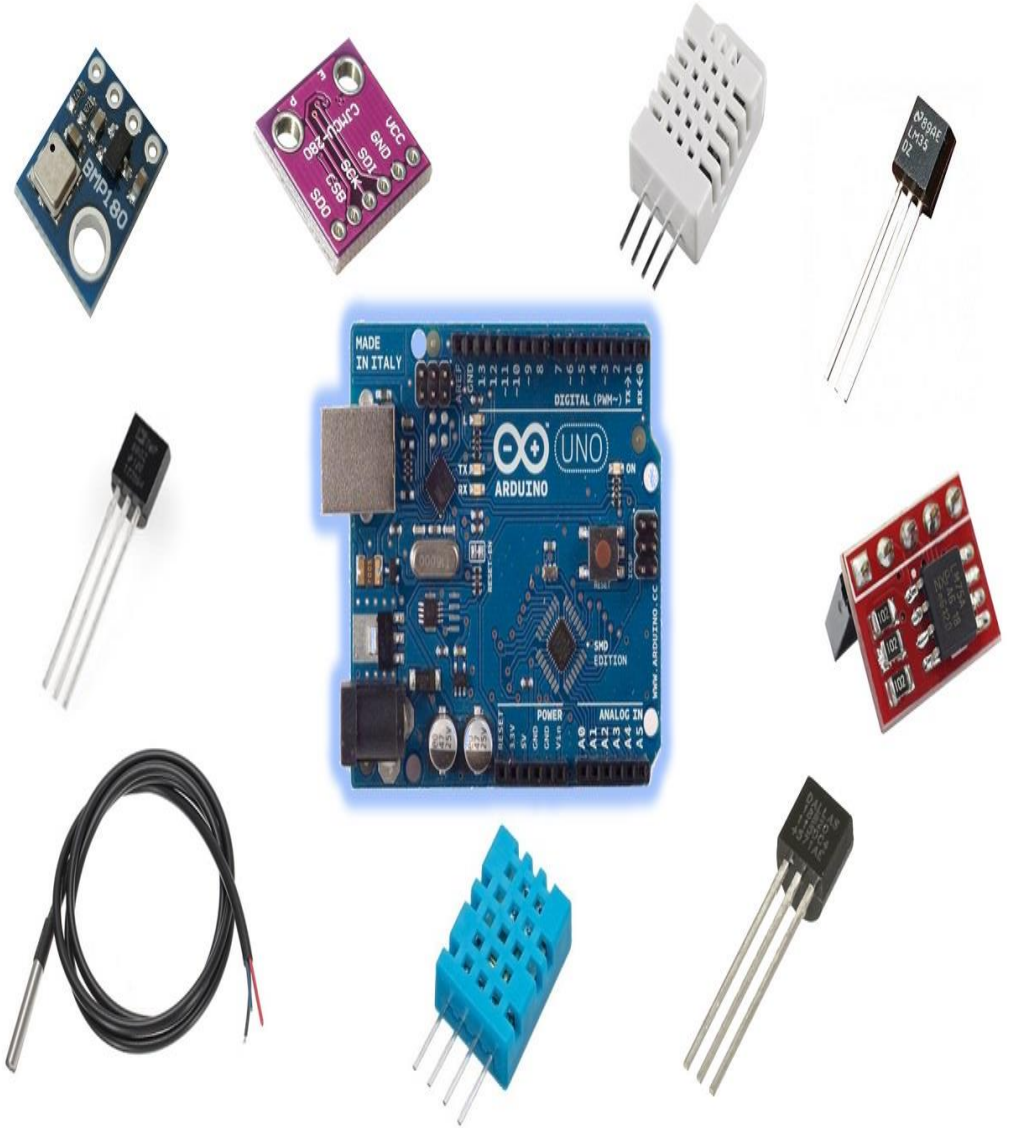
The challenge lies in ensuring timely intervention for child health issues. Swift action is vital, as early detection through the system prevents health problems from worsening, demanding immediate medical attention and ultimately improving child health outcomes.

Successful Solution

SOLUTION OF PROBLEM

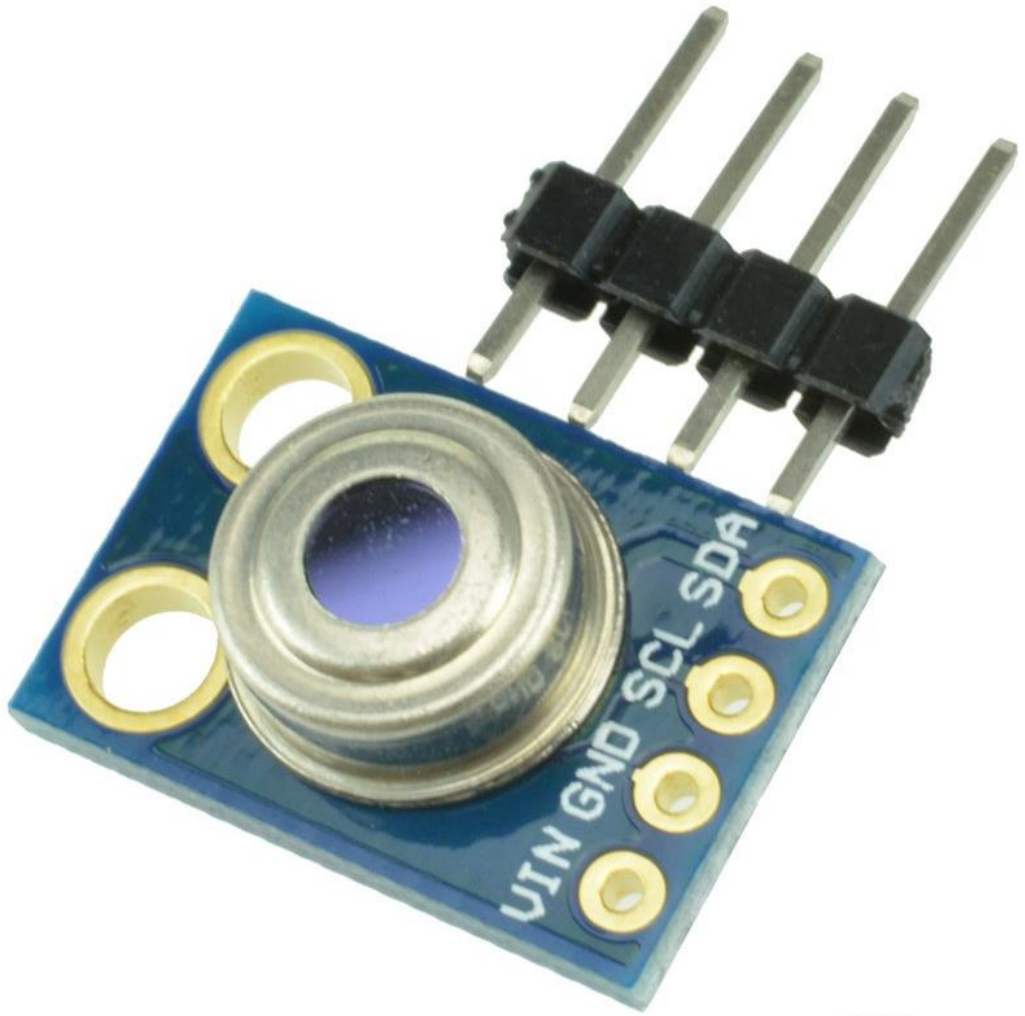
The successful solution to the challenge of ensuring timely intervention for child health issues is the implementation of the Smart Child Health Monitoring System. This system utilizes advanced technology to continuously monitor vital signs and health indicators in real-time. When abnormalities are detected, immediate alerts are sent to parents and caregivers, enabling swift medical attention. This proactive approach prevents minor health concerns from developing into serious conditions and enhances overall child health outcomes

SENSORS USED



MLX90614

MLX90614 is an infrared temperature sensor measuring object temperature without contact, useful in various applications.



MAX30100

MAX30100 is a pulse oximeter and heart-rate sensor, measuring blood oxygen levels and heart rate noninvasively.

DHT22

DHT22 is a temperature and humidity sensor, providing accurate measurements for environmental monitoring applications.

Proposed Solution Section

04

01 Solution slide

02 Key features and functionality

03 Technical Architecture

Solution Slide

This is a sample text. Insert your desired text here. This is a sample text. Insert your desired text here.

- Early Detection of Health Issues:
- Remote Monitoring:
- Improved Communication with Healthcare Professionals:
- Preventive Health Management
- Peace of Mind for Parents

Key Features & Functionalities

01 ENVIRNOMENT TEMPRATURE

02 BODY TEMPRATURE

03 PLUSE RATE

04 SpO2

Prototype and Demo Section

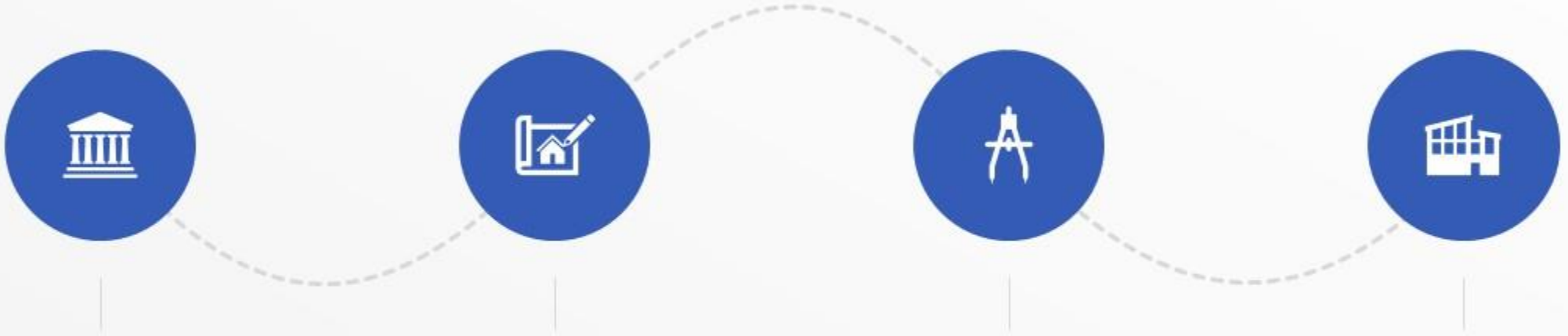
05

01 Prototype Walkthrough

Future Work Section

07

Potential Features for Future Development



Feature 01

Integration with wearables.

Feature 02

Behavioral Pattern Recognition

Feature 03

Data Privacy Enhancement

Feature 04

User Friendly Interface

HACKATHON PROJECT

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Conclusion Section

09

“The smart monitoring system has the potential to revolutionize child healthcare by providing real-time monitoring and alerts, improving access to healthcare services, and helping healthcare providers make more informed decisions. While there are challenges to implementing and adopting the system, the benefits are clear. By working together, healthcare providers and technology companies can ensure that children receive the best possible care. ”


THANK YOU!