

Problem

In most hospitals and medical centers, there is no specific method for measuring realtime body temperature periodically. Currently, temperature is measured manually using thermometers, which can be inefficient and inaccurate. We conducted a survey of nearly 70 doctors, nurses, and other medical professionals.

According to our survey:

- 67.7% of respondents stated that temperature monitoring with the current system is not highly accurate.
- 64.8% of respondents stated that the current system is not efficient.
- 75.0% of respondents stated that it would be highly useful to have a system that allows one person to monitor the temperature of an entire ward at once.

These findings highlight the need for an automated and accurate temperature monitoring solution.

Solution

We propose a smart temperature monitoring wristband that continuously monitors the real-time body temperature of patients. This device will:

- **✓** Provide real-time temperature tracking
- ✓ Send alerts if the body temperature is too high or too low
- **✓** Reduce the need for manual temperature checks
- **✓** Improve accuracy and efficiency in temperature monitoring

Stakeholder Identification

- · Hospitals and medical centers
- Healthcare professionals (doctors, nurses, caregivers)
- Patients, especially those in critical care or long-term treatment

Budget

According our Survey among doctors, nurses, and other medical professionals on average they are willing to pay 6500 LKR for the system that we are going to develop. We decided to set the prize as 6000LKR per one Wristband Monitor