

# User Problem Statement

## Introduction

**Social Distancing** has been advised as one of the methods to curb the spread of Covid-19 during the pandemic by World Health Organization (WHO) and the Ministry of Health in Malaysia. This is a measure that works but not normally practiced in the community causing spread of Covid-19. Due to our Asian culture or human close relations, we tend to forget about this advice.

## Problem Statement

As inventors, you have been approached by the Ministry of Education in Malaysia to help develop a social distancing band that can be worn by younger school-going children at the kindergarten level or Primary 1 to Primary 3 to strictly adhered to social distancing.

Also, this band can be extended to be used as a band for Home Surveillance Order (HSO) for Covid-19 positive person as requested by the Ministry of Health in Malaysia.

## User Requirements

1. The band should be light.
2. The band cannot be tampered with unless authorized to be opened by authority.
3. The band can be used to indicate adherence to social distancing of 1 meter from each other and an alert sound is to be triggered in non-compliance case. This value of 1 meter can be adjusted via an apps.
4. An apps is to be developed for interface purpose with the band.
5. The band shall have a function for the band to recognize the other band user and thus, calculate the distance from each other
6. Accuracy of the distance measurement should be within +/- 5% (ie. 5 cm for 1 m distance) of the distance stated.
7. The band can be used to alert the authorities should the person undergoing HSO leave his/her home.
8. Data safety of the user should be given high priority