# Hackathon project

↳ *Brought to you by*: Shyanne, Julia ,Kharis

★。°9 ***group B***12 ९°。★

# □ . ★。˚୨ *our theme* 。★.ˊ ˙₊□

## ˚★□。 theme.□□˚

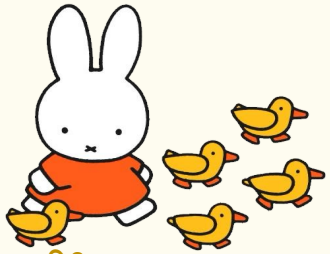
↳Our theme is to empower the community through artificial intelligence(Ai)

## ✗ problem↴

↪Visually impaired individuals commonly face a similar problem which is the ability to navigate through physical environments such as crowded streets, public buildings, or unfamiliar places

## ★ □ ˚. Target audience: Visually impaired ϑϱ

□□ The issue that we are solving is movement and identification of objects and surroundings like in crowded areas, restaurants, hawkers and many more common spaces.



# □ ✕ *what our project is about* ° ✍ ★。°

✘ many people may not be as fortunate as us to see and avoid obstacles so I-CANC is here to help!

–➢ it can help the user easily travel from and to places without much difficulty

–➢ It will inform the user of what obstacle they are approaching

## E.g of applications ⌒➘

□Enhanced environmental understanding

- Can analyse difficult situations, giving clear summaries
- Able to identify specific items [reliability]

□safe navigation

- Can detect obstacles to prevent accidents

# how it functions

## Main function of the device

→Helps guide visually impaired users when traveling from one place to another.

- Using a click of a button
- improves safety

## what's needed

↪ a electronic device
↪ a pair of wired earphones
↪ our code

## how it works.

The device is place/ worn around the neck at chest level, using its camera to detect obstacles ahead. The code identifies objects and describes them through the earphones, guiding the user in real time.

# ▪₊˚𝄞How the solution came about˚♪⊹.ˊ

## □ Human library during school assembly□□

□ The school invited people. Example: Mr Kalai Vanen, the paralympic powerlifter for team singapore. □

## □ One unique thing about our solution is..₊ ⊹

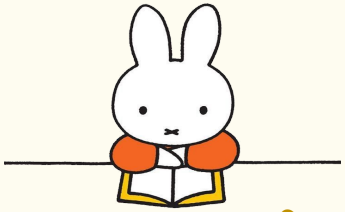
♪ It is a simple concept that can help the visually impaired to have a easy way of coping with their daily lives.

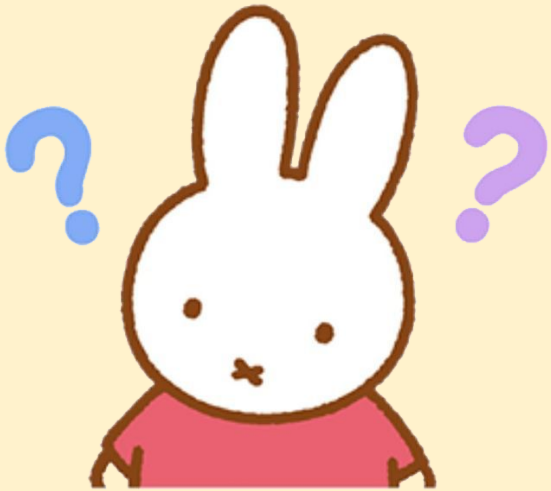
♪ Increases users confidence to travel; have an encouraging mindset + improved physical being

## □ If we could improve our solution꒰▪₊˚.

□ We would have spent more time researching about computer vision or other different solutions

□ Improving the accuracy of the description



# ⊹ □ ⊹ *QNA time*!! (^. .^)∫

**any questions?**