

Facts

- 285 million people are estimated to be visually impaired worldwide: 39 million are blind and 246 have low vision.
- About 90% of the world's visually impaired live in low-income settings and/or developing countries.
- 82% of people living with blindness are aged 50 and above.
- Globally, uncorrected refractive errors are the main cause of moderate and severe visual impairment; cataracts remain the leading cause of blindness in middle- and low-income countries.

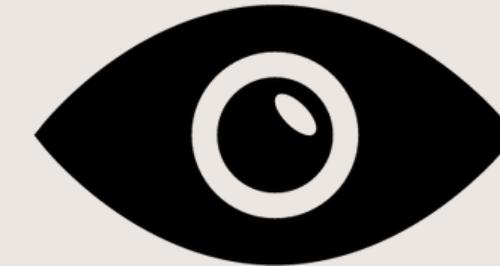
Why can't they live the normal? →



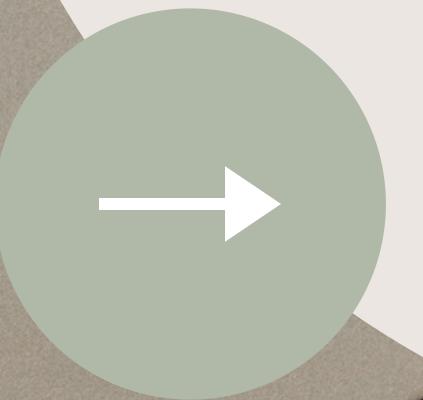


A close-up photograph of a laptop keyboard, showing keys like F1-F9, command, option, and control. In the background, a person's blonde hair is visible against a textured, light-colored wall.

Digital



WITH REALLY GREAT SIGHT



Here's what you'll find!

HackJnu 2.0



Overview:

- What we aim to ?
- What problems do they face?
- How are we heading ?
- About our Project.
- Thank You

Our Aim

- We aim to help the visually impaired by serving them with a Digital Vision.
- A Simple Mobile electronic device for blind and visually impaired people mobility.



What Problems do they Face?

Why can't they live the normal? →



Problems Faced

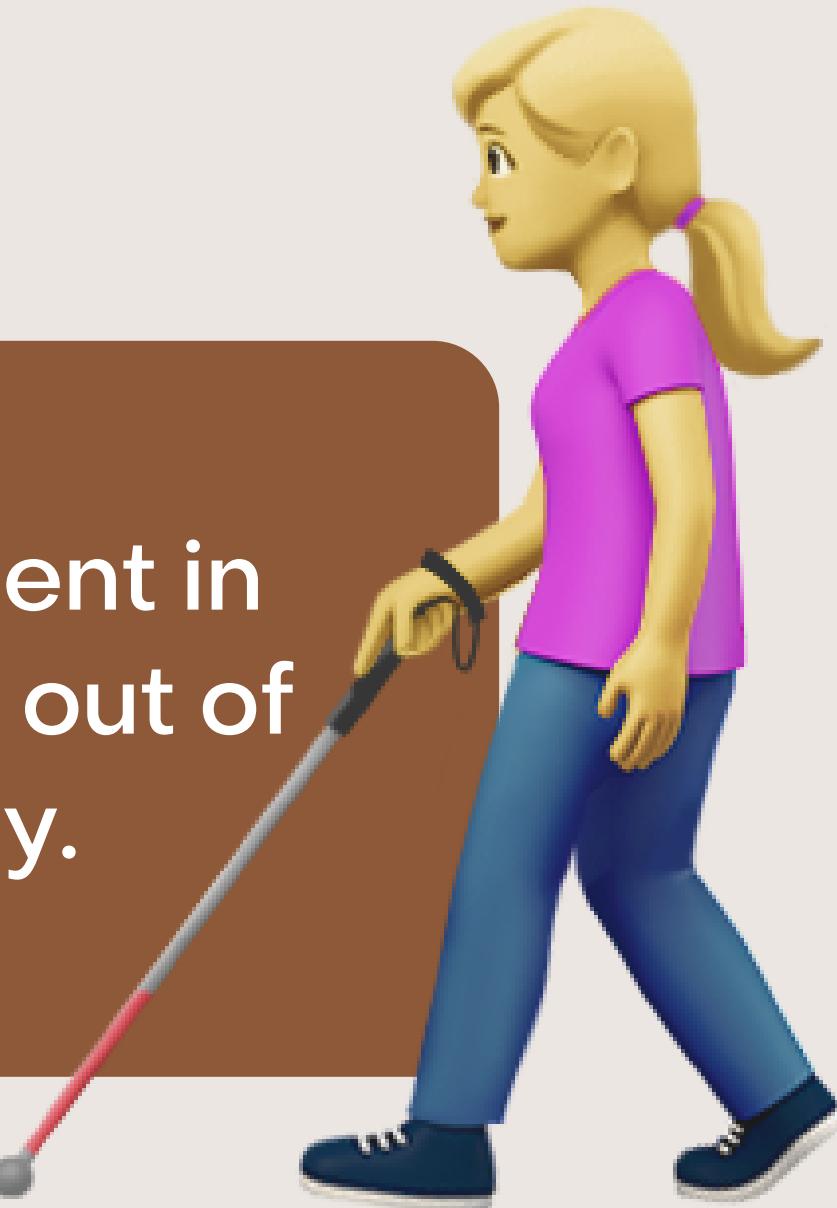
Difficulties faced in reading bills, documents and other necessary stuff

Fear of getting lost or confused in the street.

*And
many more...*

Devices in the market are inaccurate with distorted reliefs due to old technologies

Embarrassment in being helped out of sympathy.



Digital Vision

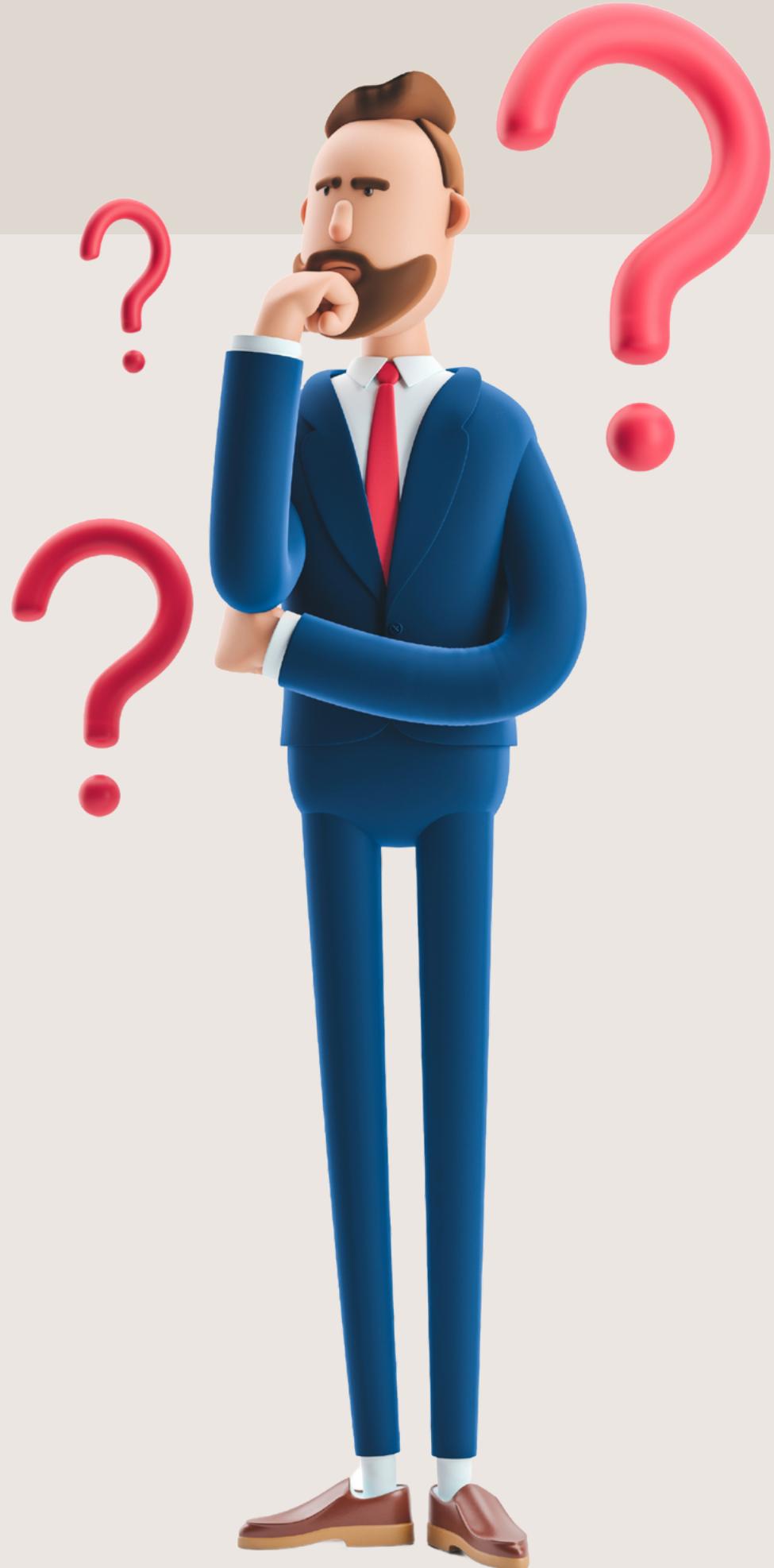
How are we heading?

The idea of developing such a device arises from several aspects concerning the device market and from the everyday blind and visually impaired people problems.



About Our Project

A device that could help blind people sense if there is an object in front of them that they might hit. The white cane that they use when walking is used for helping them navigate the ground but does not do much for up above. Using an Arduino UNO, Node MCU, Ultrasonic and Pulse Sensor, and a buzzer. we think to create a device that will beep to alert the person that something is in front of them



About our Project



Location tracker

This keeps a track of the person's location. In case of any emergency, it sends the location to close contacts.



Text scanner

This uses a scanner that can scan bills, signboards, or any such relevant information and convert the entire into an audio output.



Pulse monitor

This uses a pulse sensor to monitor the heart rate. In case of a Panic attack or any such Emergency, it takes the help of the GPS tracker to alert the nearest known person available.



**Thank
You!**