

# Trolley

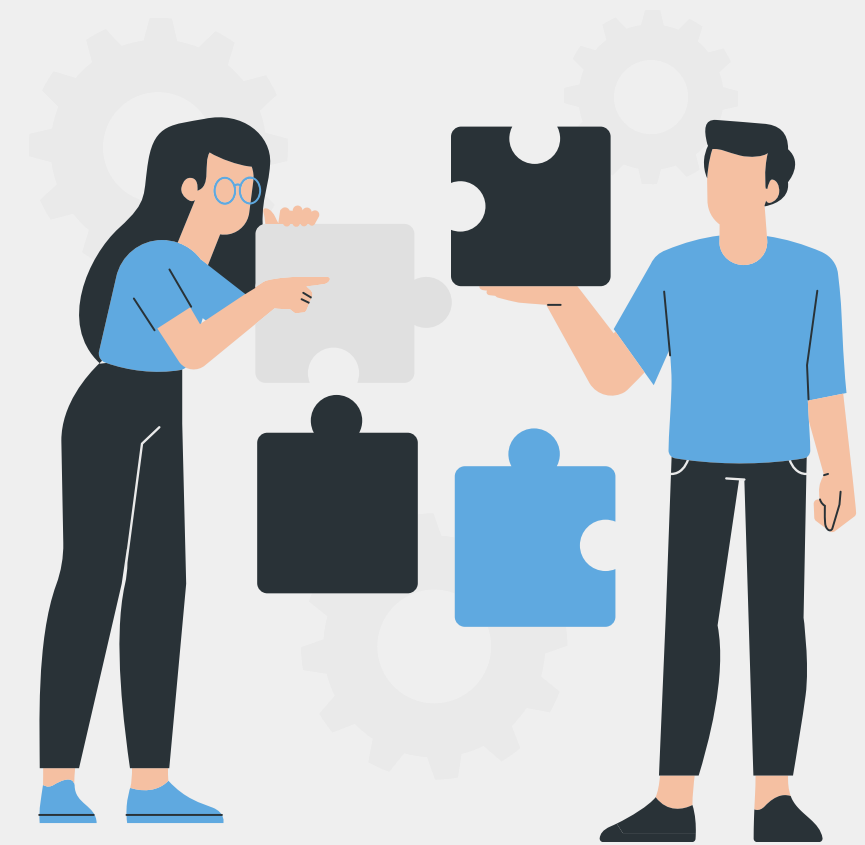
A smart shopping cart that helps the shopper know the places of orders and facilitates the shopping process

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# Executive Summary

- **FROM THE CURRENT SHOPPING PROBLEMS**
  - congestion and overcrowding
  - Loss of time
  - The sales representative's inattention to complete the payment process
- **TO REDUCE THESE PROBLEMS**
  - Using technology in shopping to facilitate the shopping process
    - Reduces congestion and overcrowding, saving time and effort



# Serious Social Issues

- The customer does not know the availability of the items in the store or not
- Customers may lose time in finding their needs
- Wasting time waiting for the billing
- Difficulty transporting products from the basket and unloading them at the accountant and placing them in cyst

# Trolly

Developing the existing basket into a smart basket using artificial intelligence technology, the Internet of Things, and voice recognition, and it is linked to the mobile application

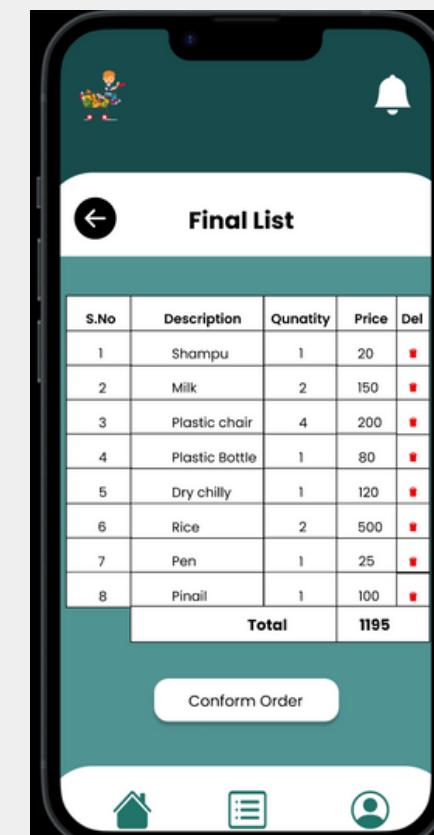
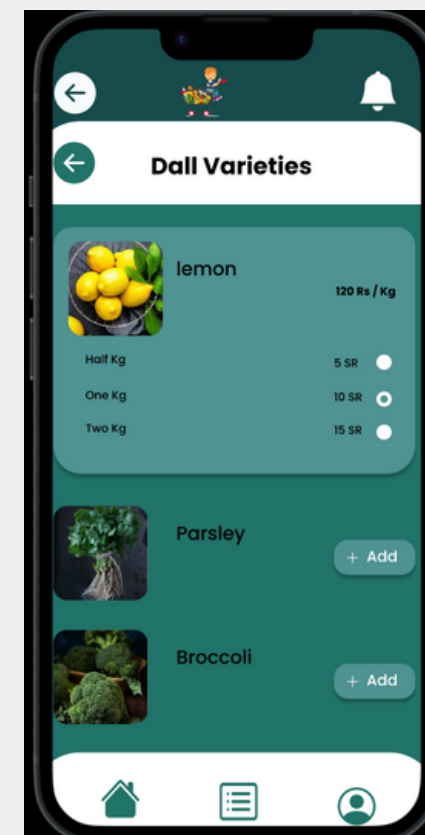
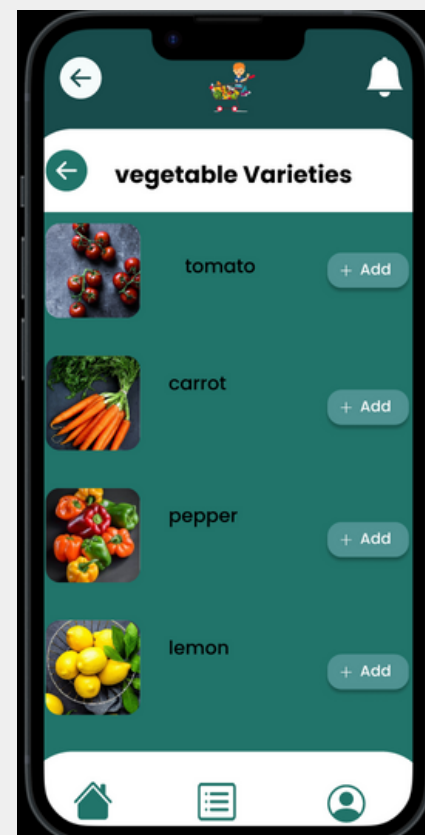
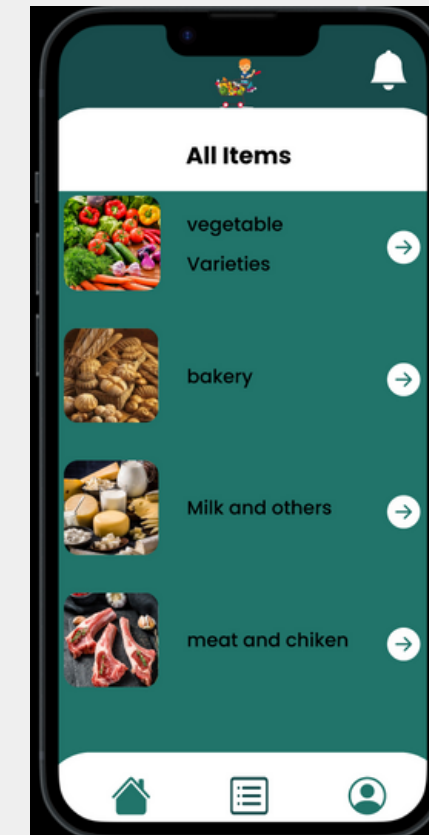
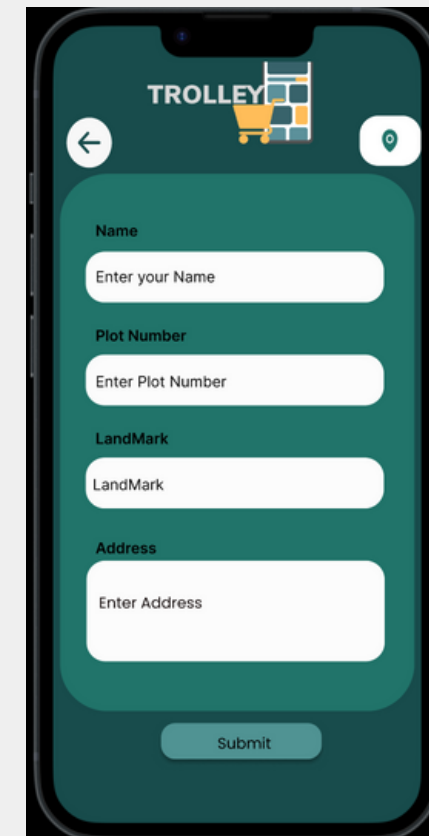
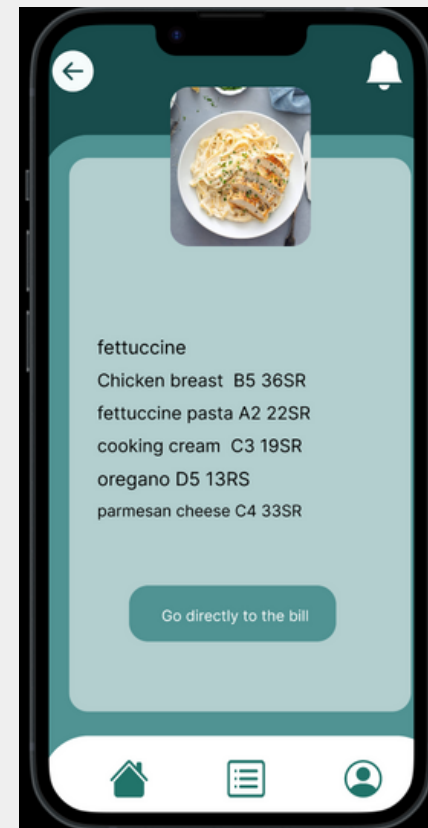
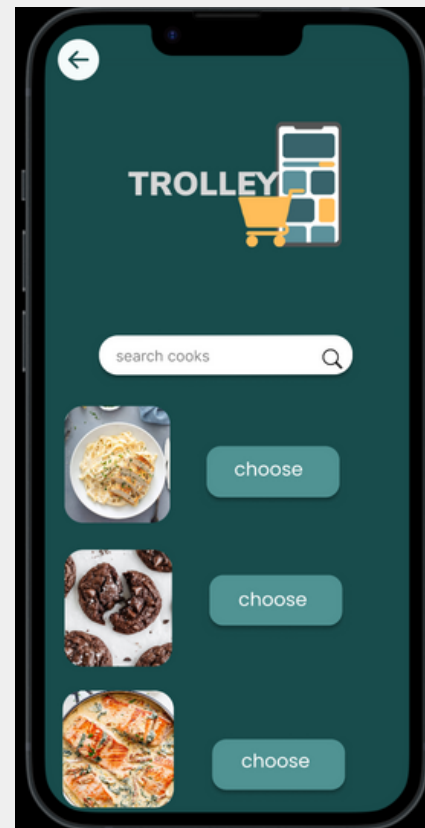


Shopping speed

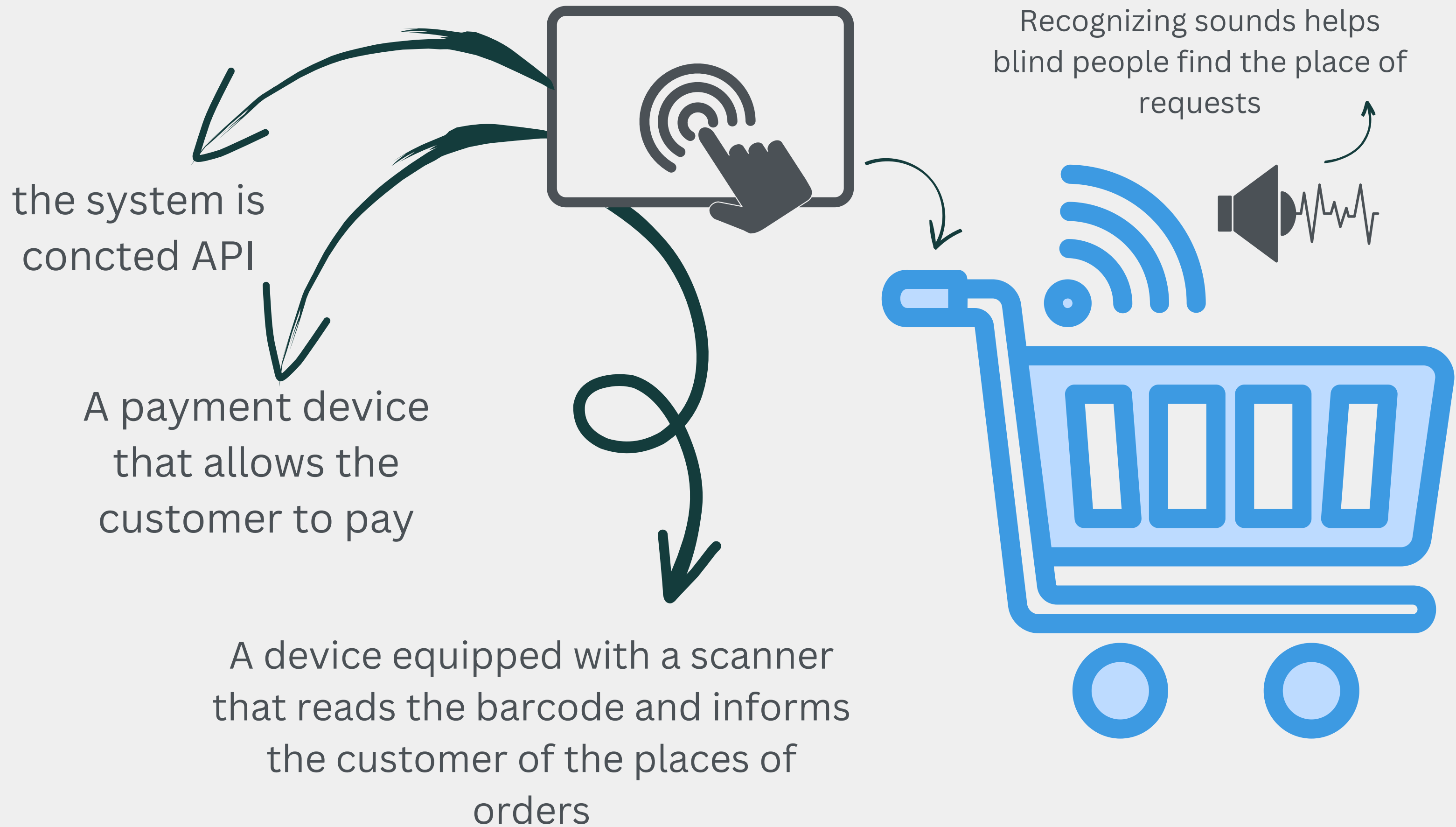


Verfy Paymentd

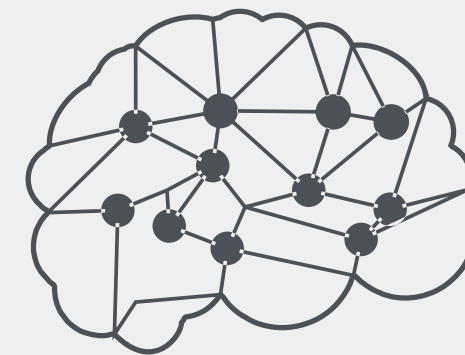
# An application prototype:



# MECHANISM/OPERATION



# TECHNOLOGIES



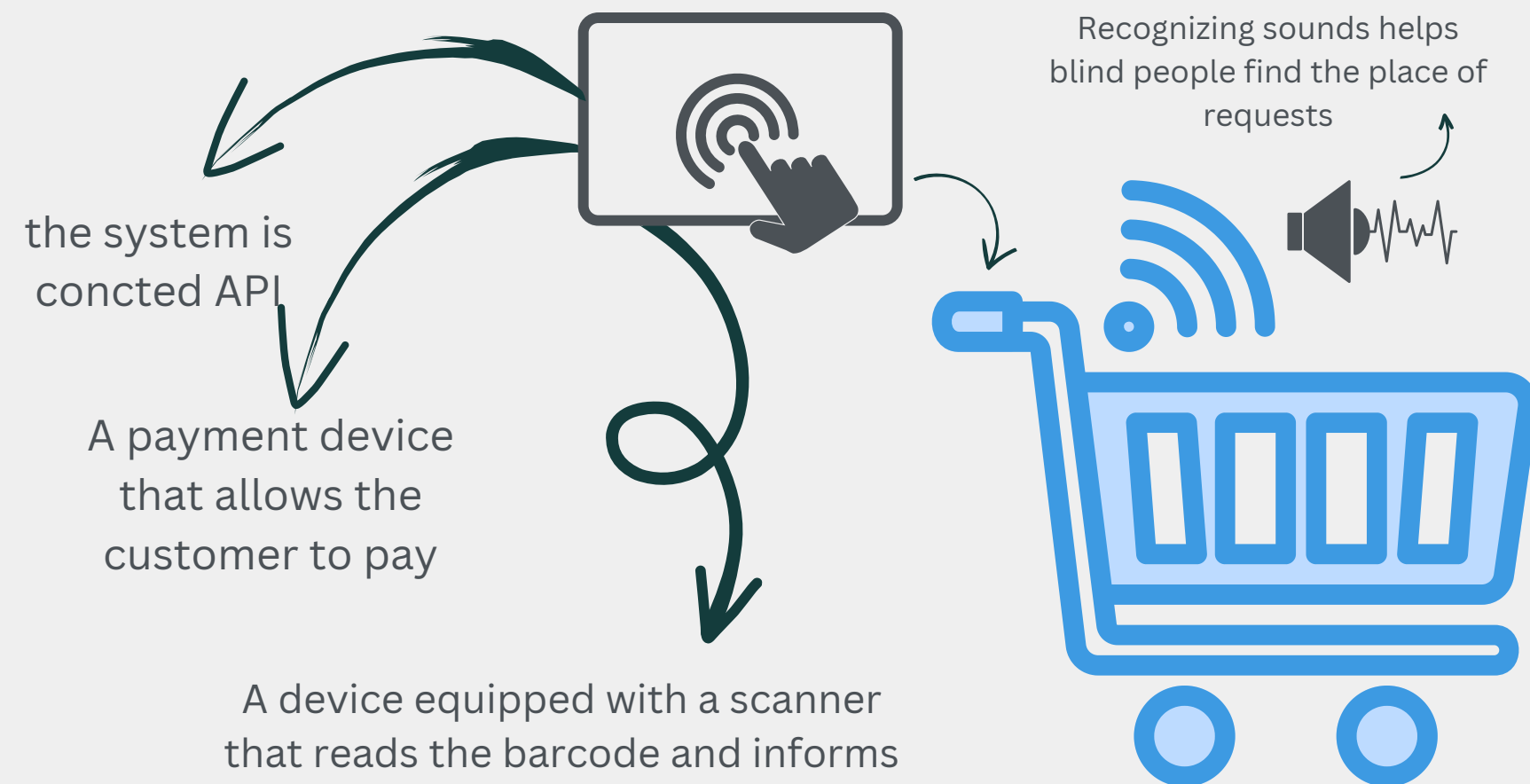
artificial intelligence



Internet of things



Recognizing sounds



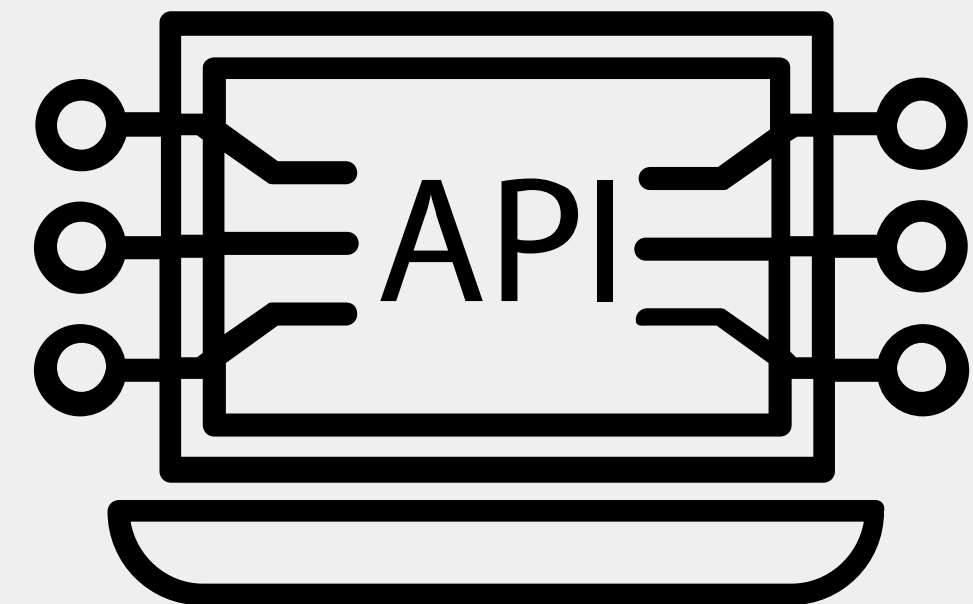
the system is  
concted API

A payment device  
that allows the  
customer to pay

A device equipped with a scanner  
that reads the barcode and informs  
the customer of the places of  
orders

Recognizing sounds helps  
blind people find the place of  
requests

The application can use the same features of the shopping cart screen that also uses the API





# Benefits

- Shopping speed
- Verify payments
- Easy of use



**Video**



**Prototype**



**github**

Thanks for  
watching