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TEAM - 7

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WHEELCHAIR

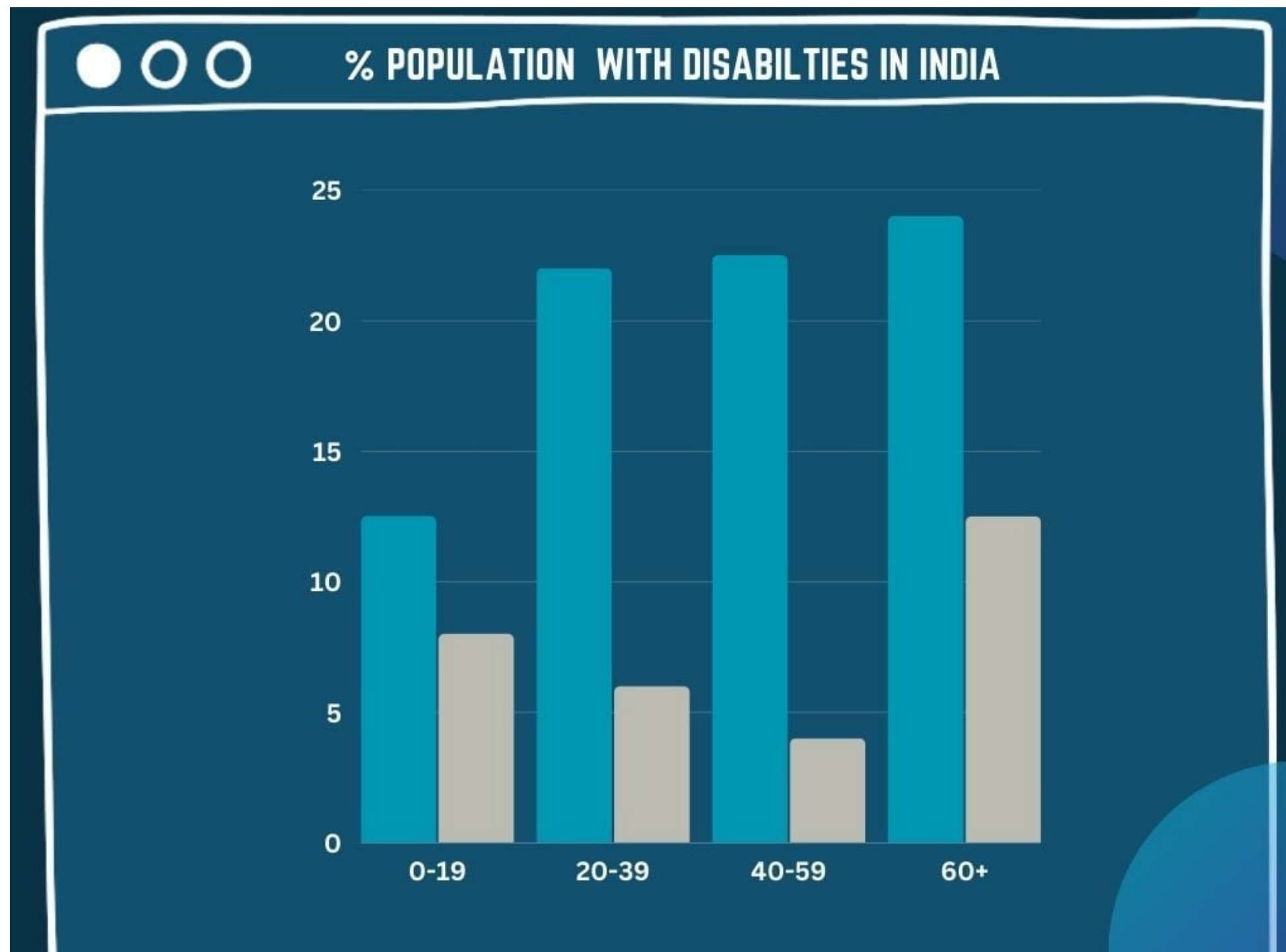
- enhanced by IoT



# 01

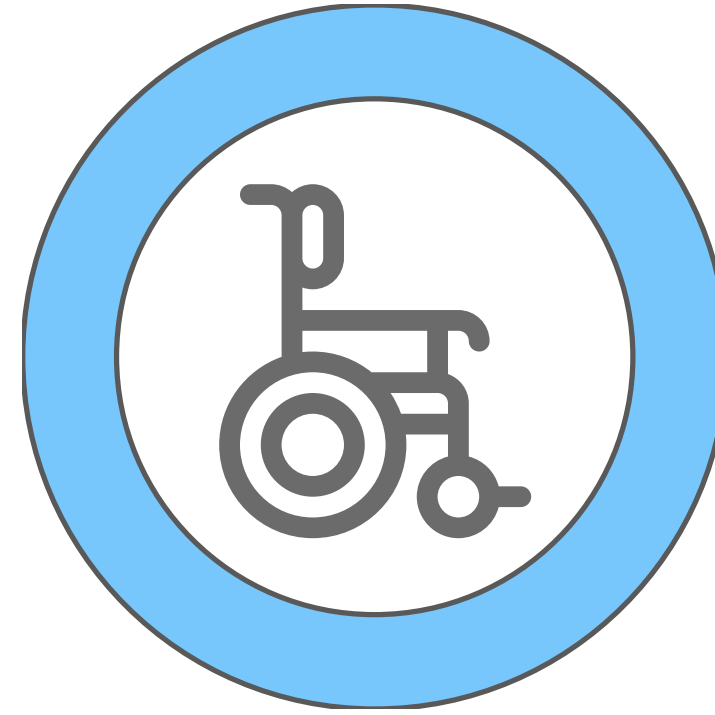
## MOTIVATION





Physical

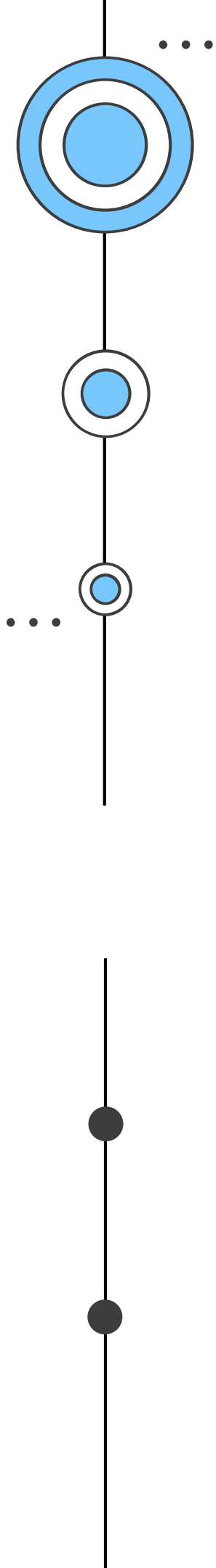
Multiple



# AIM

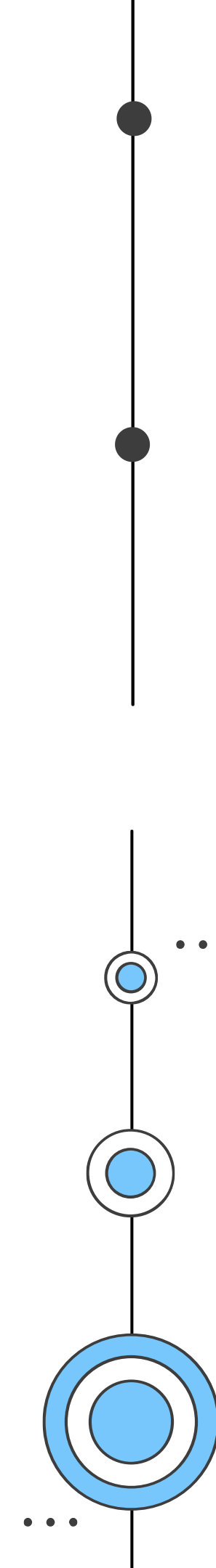
The aim of this project is to develop an innovative and affordable wheelchair enhanced by the power of IoT by integrating it into the functionality of the wheelchair. We aspire to ease the experience of individuals with limited mobility. Our goal is to empower wheelchair users with increased independence, safety, and health monitoring.

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# 02

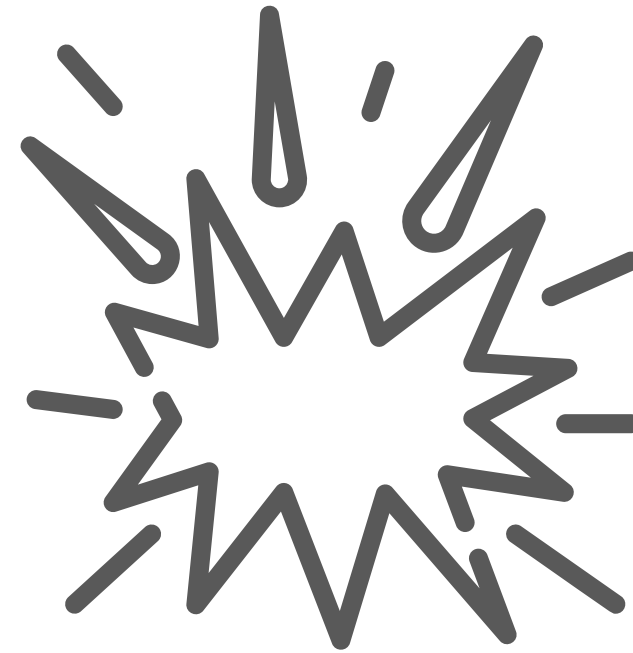
## FEATURES



# FEATURES



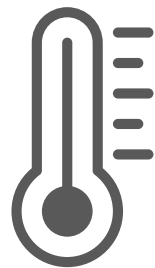
Heart Rate  
Reading



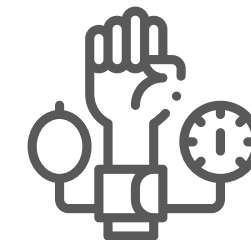
Avoiding  
collisions



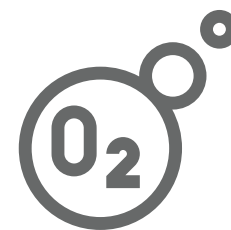
Axis Readings



Temperature  
Reading



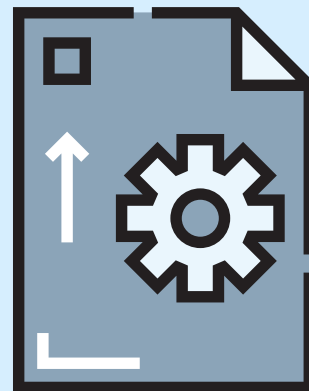
Blood Pressure  
readings

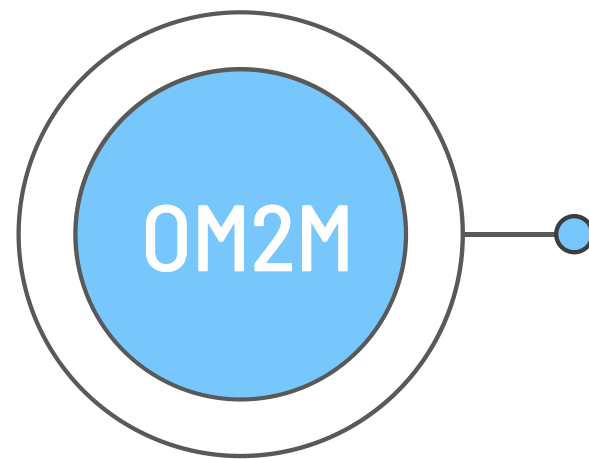


SpO<sub>2</sub>  
Reading

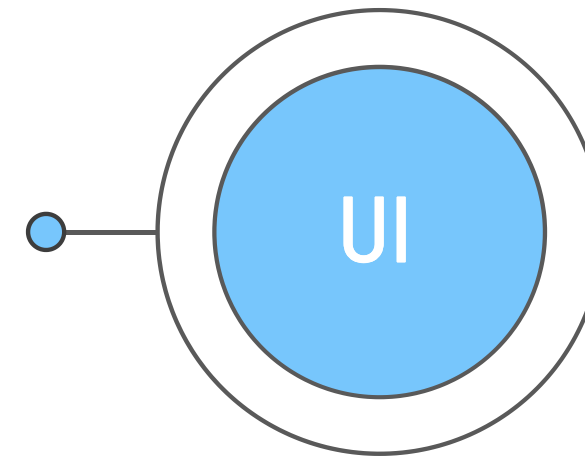
03

# IMPLEMENTATION

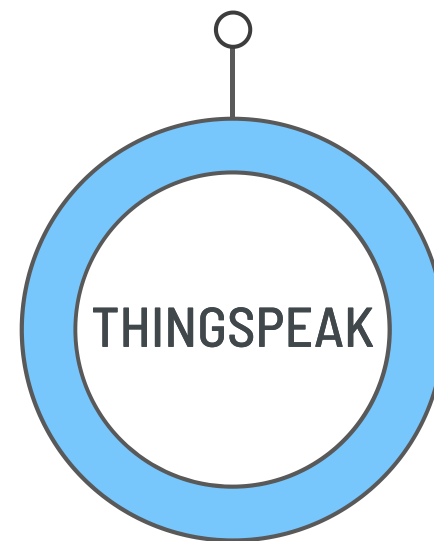




Stores data  
from sensors



Displays real-time data  
and visual graphs based  
on previous data



Displays graphs on the basis  
of data received





# THINGSPEAK



## PULSE OXIMETER

- Heart Rate
- SpO2
- Systolic Pressure
- Diastolic Pressure

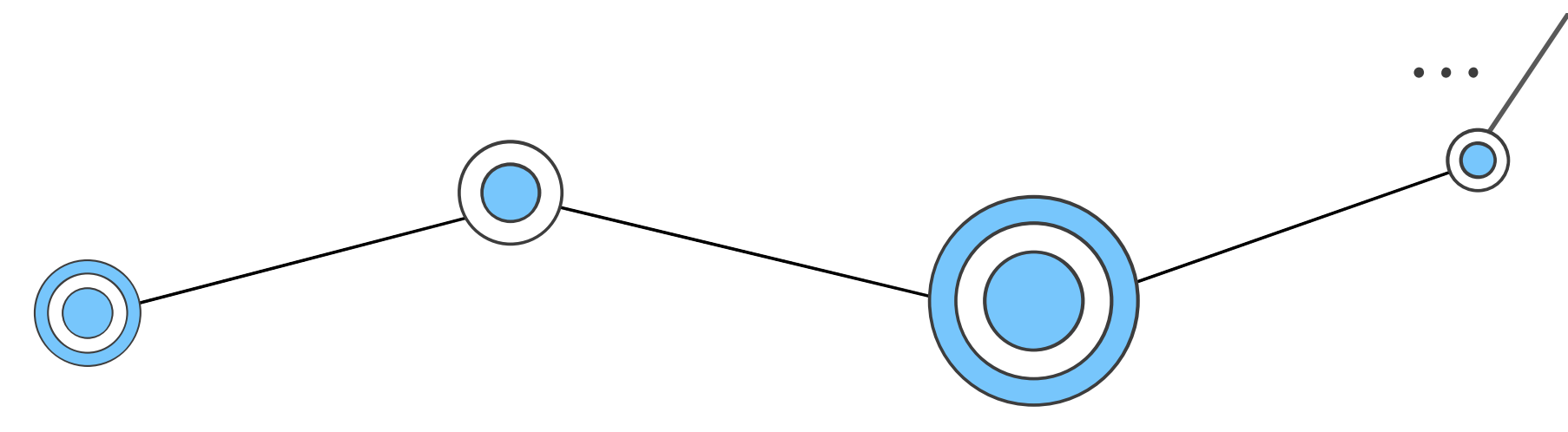
## ACCELEROMETER

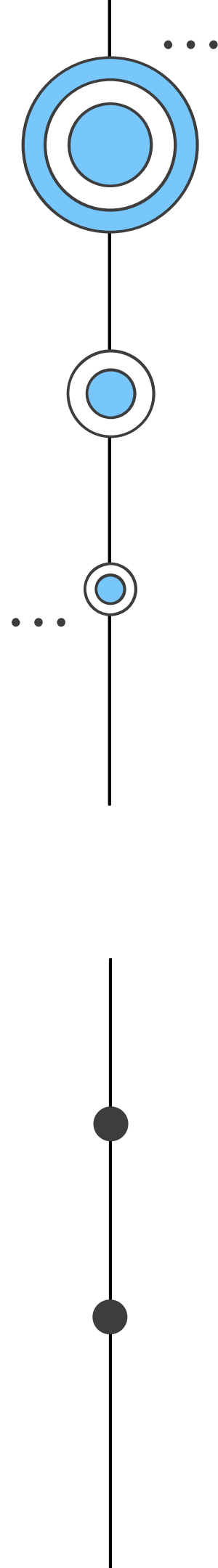
### Temperature

### Acceleration

- x-axis
- y-axis
- z-axis

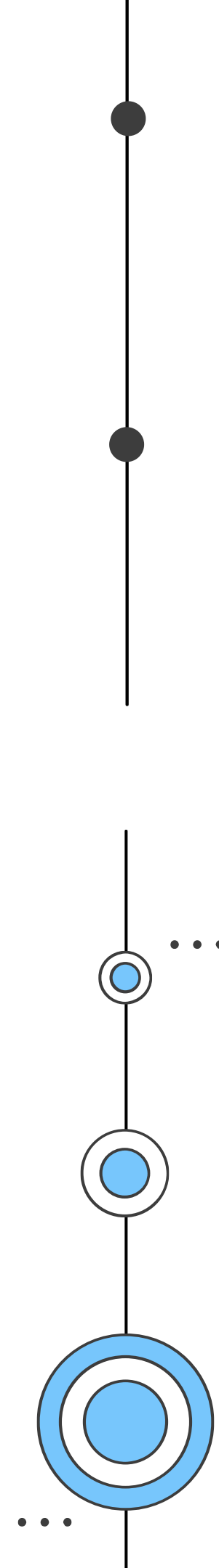
### Gyroscopic angle

- x-axis
  - y-axis
  - z-axis
- 



# 04

## What Next ?



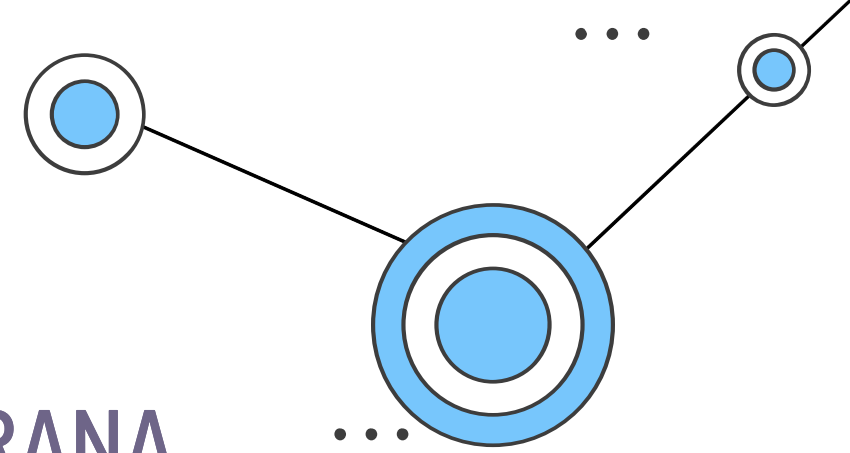
# Planning to finish by the end of the sem!



- Opening doors by IR sensor
- Implementing weight sensor
- Calculate velocity by Hall-effect sensor
- Data Collection
- Failure analysis

# 05 TEAM





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SAMARTH SRIKAR  
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2022101065



TA : AKSHIT GUREJA

