

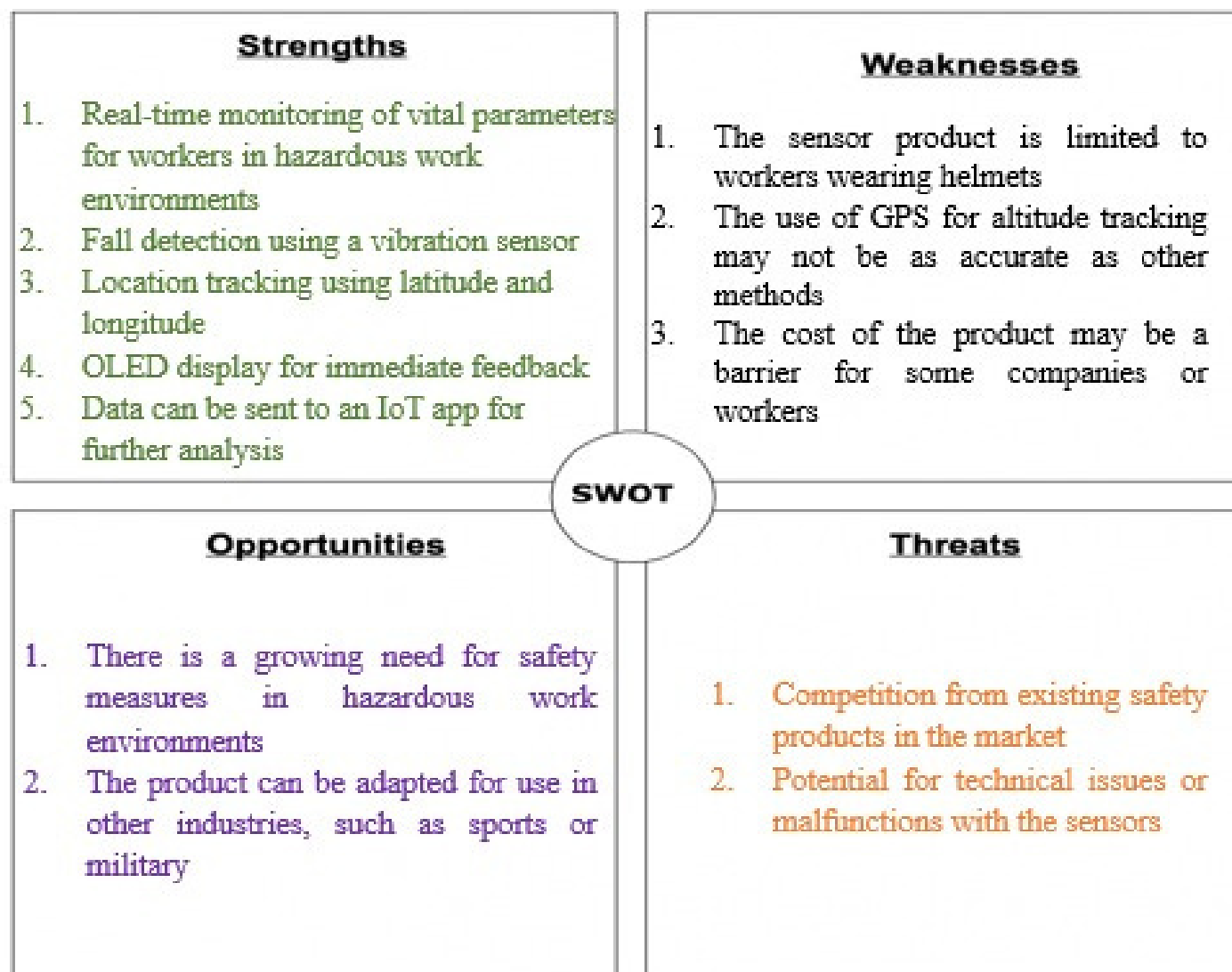


SAFETY HELMET WITH IOT



DESIGN BRIEF

The design brief of this project is to develop a sensor product that can be placed on a helmet to ensure the safety of workers at high altitudes



AIM AND OBJECTIVES

This project is solving the problem of ensuring the safety of workers in hazardous work environments, such as those at high altitudes. The sensor product placed on the worker's helmet can monitor vital parameters such as heart rate, SPO2 levels, body temperature, and altitude, and can also detect falls using a vibration sensor. This allows for real-time monitoring of workers and can alert personnel in the event of an emergency.



TARGETED AUDIENCE

- Workers who works on construction sites
- Labors
- Civil Engineers
- Anyone who works on height

BUDGET



- For prototype- 30.6\$
- For real- 100\$ each
- Making it as a business- app.500\$

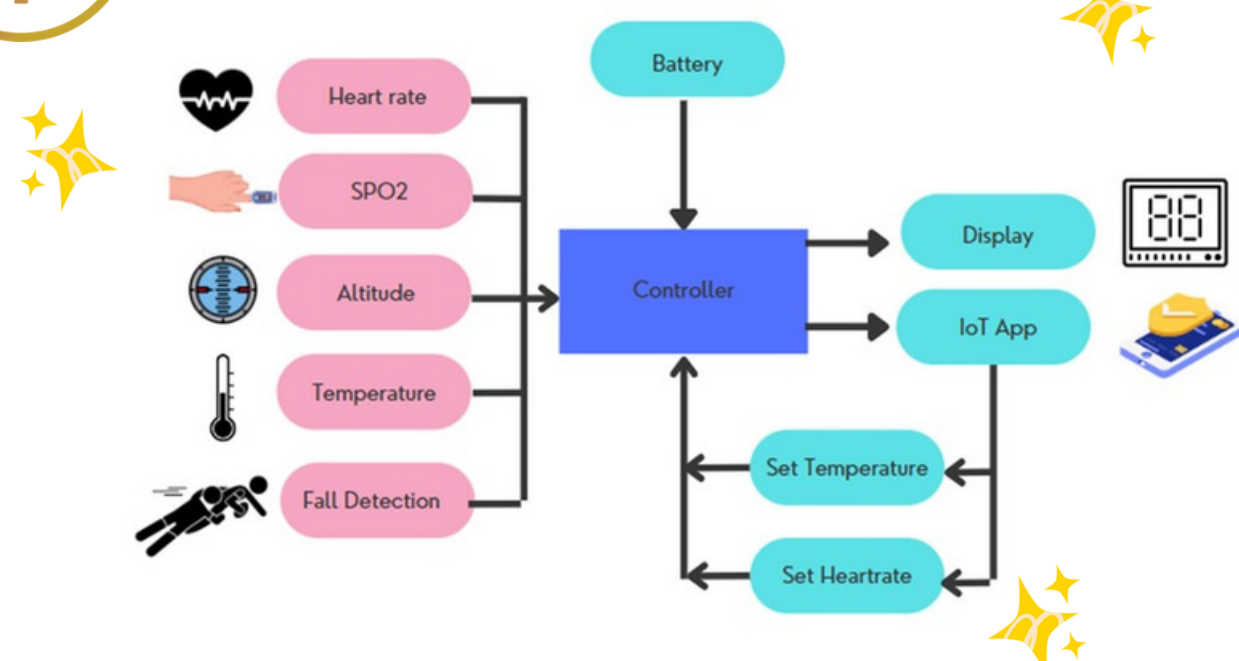


Future work and how to improve the project:

- 1.Integration with AI.
- 2.Durability and battery life
- 3.User interface
- 4.Advanced Analytics



BRAIN STORMING



HOW IS IT BETTER TO UAE?

Overall, the sensor product for worker safety at high altitude can help achieve sustainability goals by improving worker safety and well-being, contributing to sustainable and responsible development, and advancing wearable technology through innovation. It can also benefit the UAE's construction industry by improving safety standards, increasing competitiveness, and positioning the country as an innovation hub for wearable technology.