Project Design Phase-I
Solution Architecture

Date	06 May 2023
Team ID	NM2023TMID10876
Project Name	Industrial Workers Health and Safety System Based on Internet of Things

Solution Architecture:
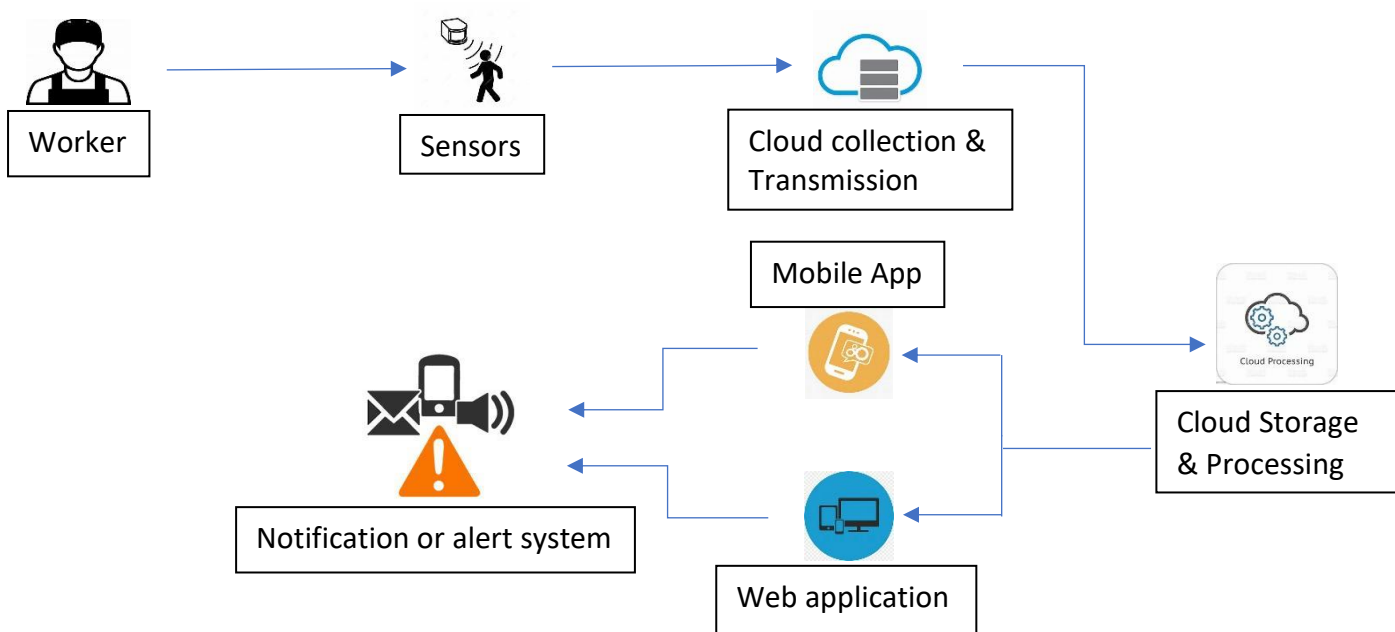
Description: -

1. Sensors: A range of sensors would be integrated into the shoes of the workers to collect data on various parameters like temperature, altitude, distance, and movement.

2. Data Collection and Transmission: The data collected by the sensors would be transmitted to a central server through wireless communication technologies like Bluetooth or Wi-Fi.

3. Data Storage and Processing: The data collected from the sensors would be stored in a cloud-based platform for easy access and processing. Advanced analytics tools could be used to process the data and generate meaningful insights.

4. Mobile and Web Application: A mobile and web application would be developed to provide access to the data collected by the sensors. The application would be designed to provide real-time updates to workers about their health status, as well as to management to monitor the worker's performance, safety and well-being.

5. Alert and Notification System: An alert and notification system would be implemented to send notifications to workers and management in the event of any health or safety-related issues detected by the sensors.