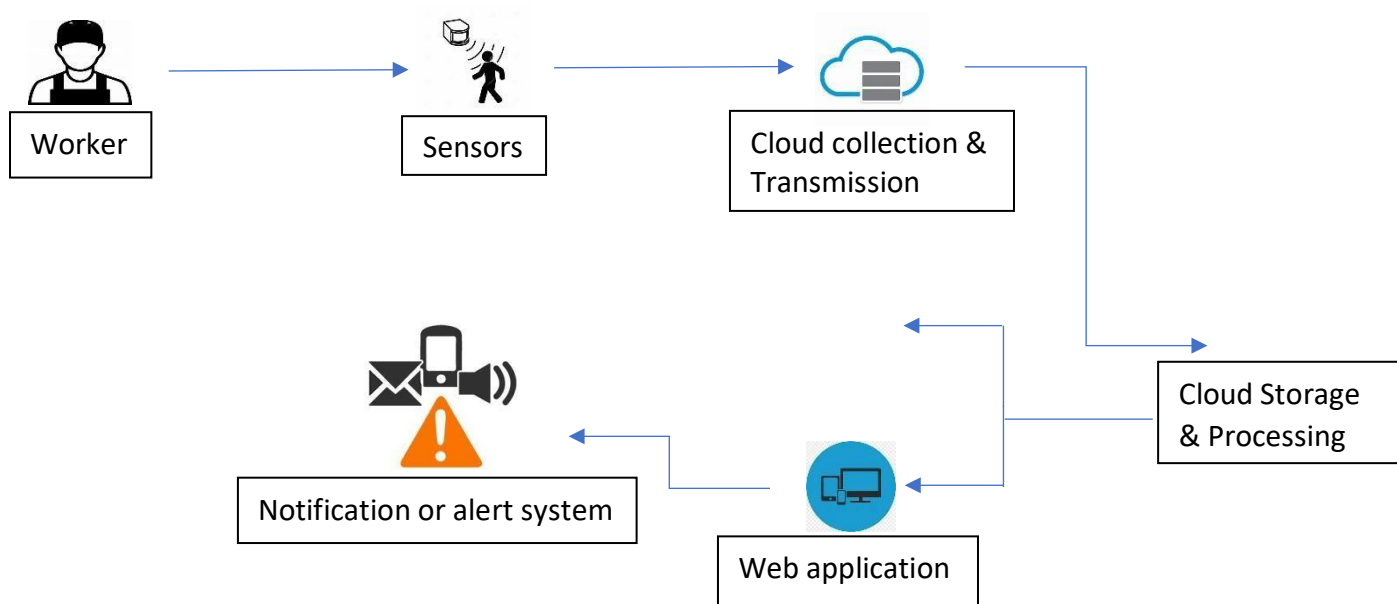


**PROJECT DESIGN**  
**PHASE-II**  
**DATA FLOW DIAGRAM**  
**AND USER STORIES**

Date	12 May 2023
Team ID	NM2023TMID10876
Project Name	Industrial Workers Health and Safety System Based on Internet of Things

**FLOW:**

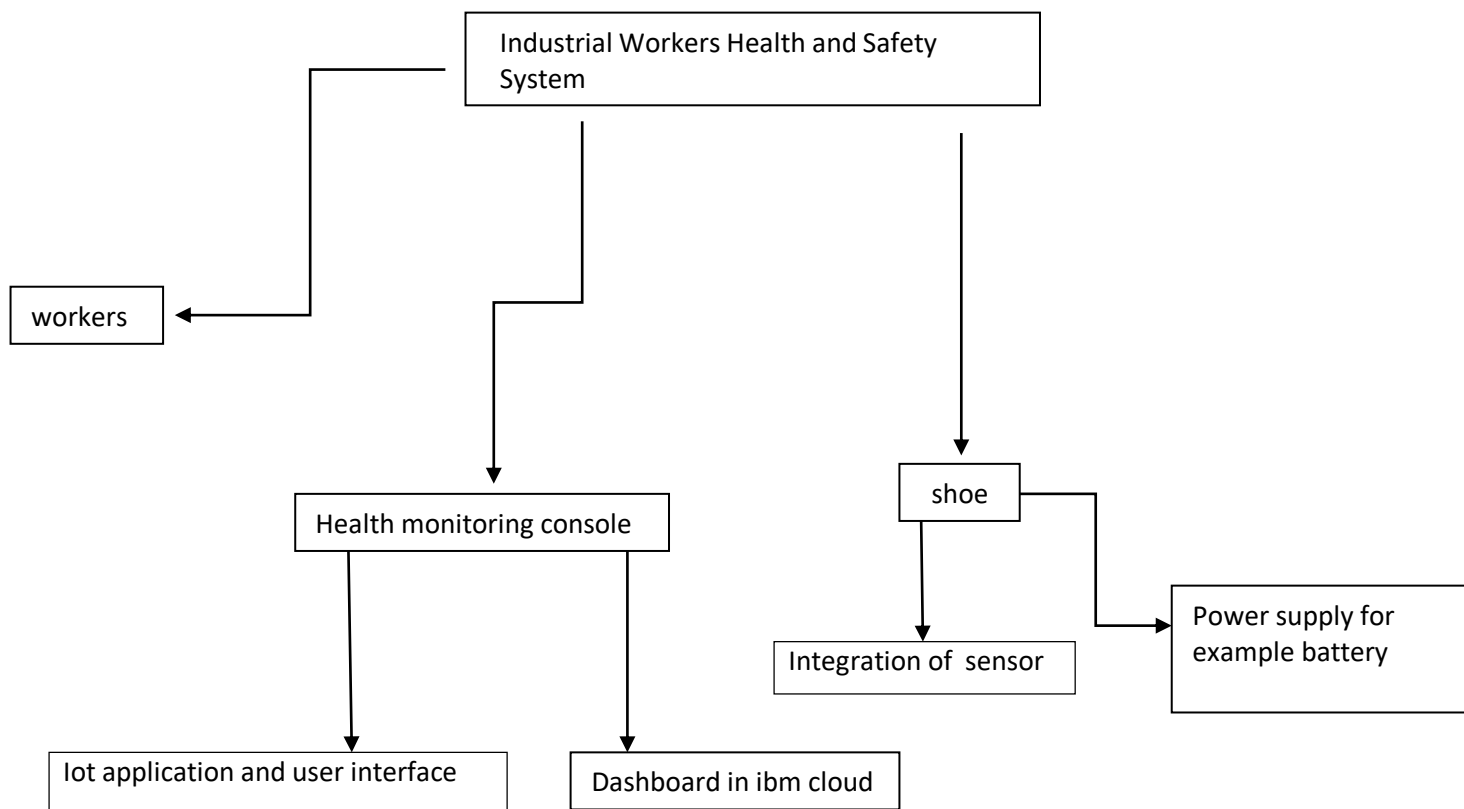


**Description: -**

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.

## DFD LEVEL 0 (INDUSTRY STANDARD)



## USER STORIES

USER TYPE	FUNCTIONAL REQUIREMENT (EPIC)	USER STORY / TASK	ACCEPTANCE CRITERIA	PRIORITY
worker	Real-time monitoring	I want the recorded sensor data to be sent to the cloud for storage so that it can be accessed and analyzed later for safety assessments and performance evaluations.	I can receive real time alerts.	High
supervisor	Maintenance tracking	I want to receive alerts and notifications in the web application when workers are working at higher altitudes so that I can provide them with important precautions and ensure their safety.	I can able to view the status & identify the issues	High

Administrator	Compliance tracking	I want to manage the user accounts and permissions for the mobile and web applications so that only authorized personnel can access the worker's data and make necessary changes.	I can generate reports	Medium
---------------	---------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------	--------