Project Design Phase-II
Data Flow Diagram & User Stories

Date	06 May 2023
Team ID	NM2023TMID15400
Project Name	Industrial Workers Health and Safety System based on the Internet of Things

Data Flow Diagrams:

The system consists of external entities such as workers, supervisors, IoT sensors, and a database. The IoT sensors collect data on vital signs, environmental conditions, and equipment status. This data is then transmitted to the system for processing and analysis. The processing and analysis component performs operations like filtering, aggregation, and real-time monitoring. The analyzed data is stored in a database, serving as a central repository. Based on the processed data, the system generates alerts and notifications for workers and supervisors, warning them of potential health risks, safety hazards, or equipment failures. Users interact with the system through a user interface, which provides real-time information and allows for configuration settings and incident reporting. The system also generates reports, visualizations, and analytics to provide insights into worker health trends, safety incidents, and compliance metrics.