ProjectDesignPhase-II
DataFlowDiagram& UserStories

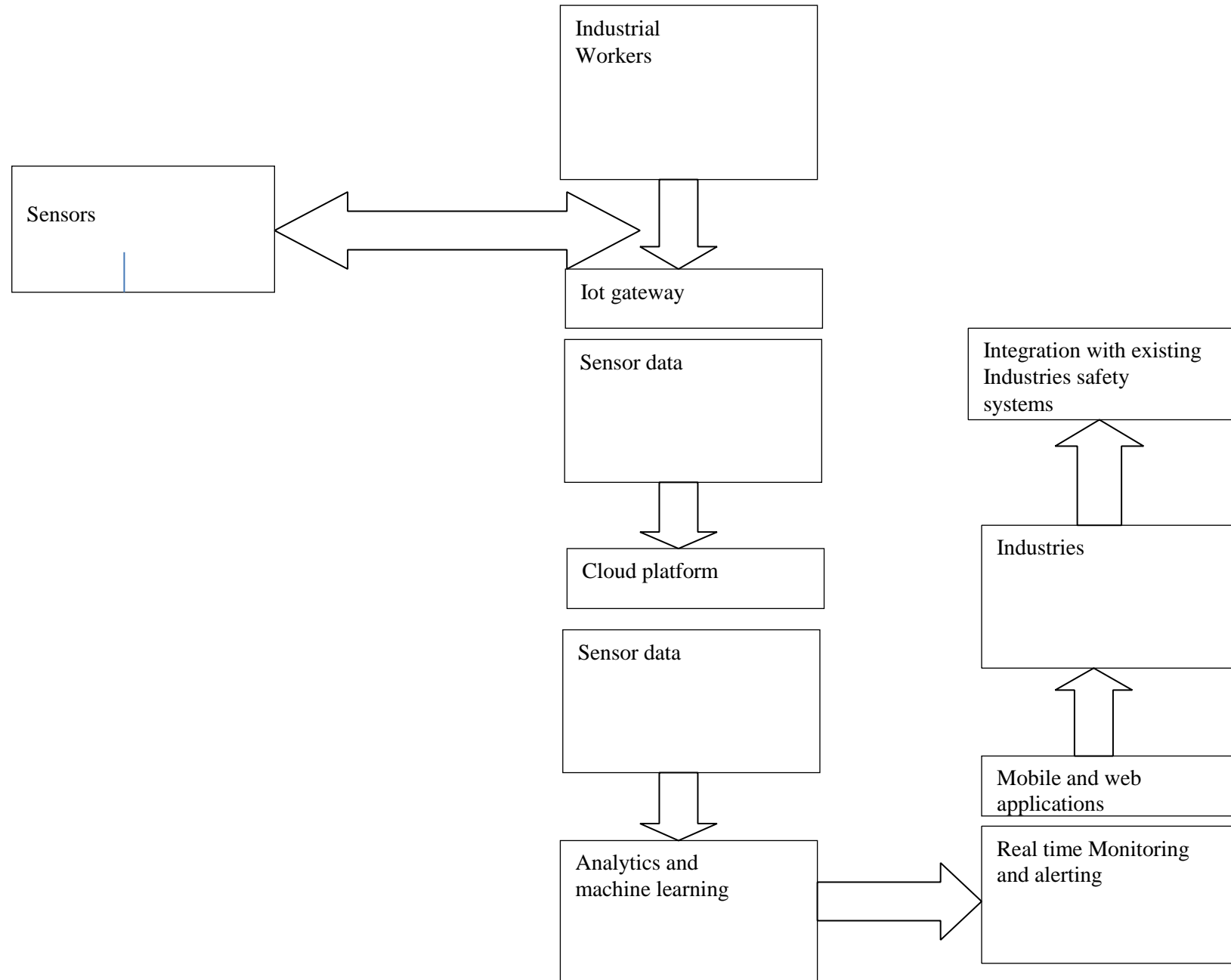| Date	10May2023
TeamID	NM2023TMID16319
ProjectName	Industrial Workers Health and Safety System based on Internet of Things

DataFlowDiagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the rightamount ofthesystemrequirementgraphically.Itshowshow dataenters andleavesthesystem,whatchangestheinformation,andwheredataisstored.

Example:(Simplified)
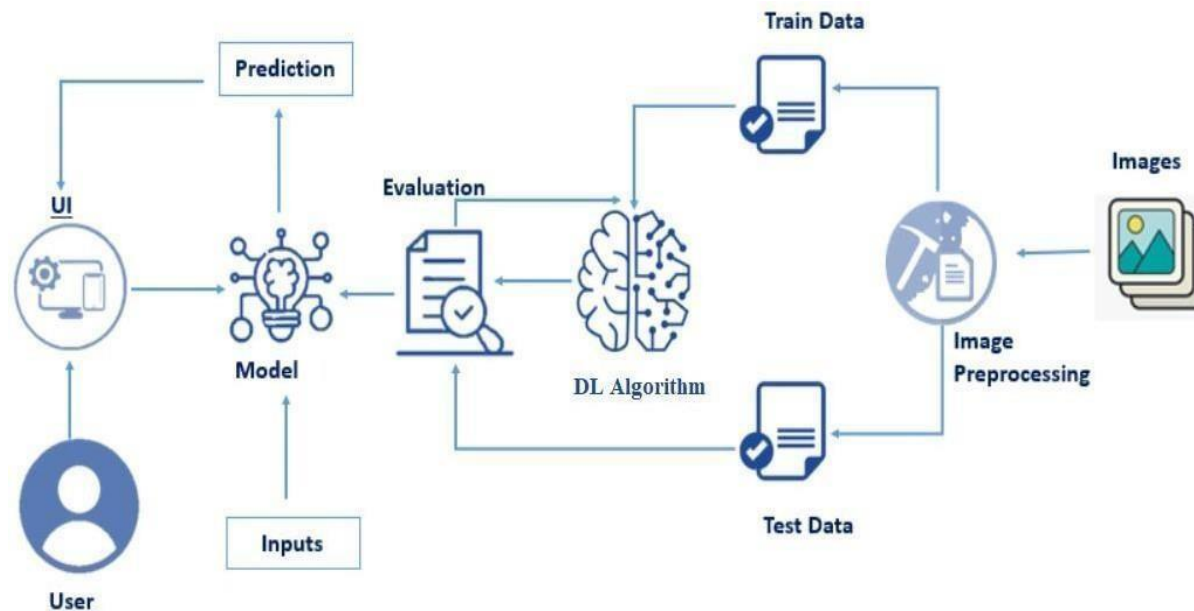
Example:DFD Level0(IndustryStandard)

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                          ┌──────────────┐
                          │ Industrial   │
                          │ Workers      │
                          │              │
                          └──────┬───────┘
                                 │
┌──────────────┐      ◁═══════════▷  ║
│              │                     ▼
│ Sensors      │              ┌──────────────┐
│              │              │ Iot gateway  │
│              │              └──────────────┘
└──────────────┘
                              ┌──────────────┐      ┌──────────────────────┐
                              │ Sensor data  │      │ Integration with     │
                              │              │      │ existing Industries  │
                              │              │      │ safety systems       │
                              │              │      └──────────────────────┘
                              └──────┬───────┘                 ▲
                                     ▼                         ║
                              ┌──────────────┐      ┌──────────────────────┐
                              │ Cloud        │      │ Industries           │
                              │ platform     │      │                      │
                              └──────────────┘      │                      │
                                                    └──────────────────────┘
                              ┌──────────────┐                 ▲
                              │ Sensor data  │                 ║
                              │              │      ┌──────────────────────┐
                              │              │      │ Mobile and web       │
                              │              │      │ applications         │
                              └──────┬───────┘      ├──────────────────────┤
                                     ▼              │ Real time Monitoring │
                              ┌──────────────┐      │ and alerting         │
                              │ Analytics and│ ════▷│                      │
                              │ machine      │      │                      │
                              │ learning     │      └──────────────────────┘
                              └──────────────┘
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UserStories

Use the below template to list all the user stories for the product.

UserType	Functional Requirement (Epic)	User Story Number	UserStory/Task	Acceptance criteria	Priority	Team Member
Maintainance Staff	Registration	USN-1	As a user, I am responsible for the upkeep and workers health monitoring		High	Thejaa Reddy
		USN-2	As a user, identify the issues with the system		High	Prashanth
		USN-3	As a user, identify the issues with the system		Low	Kalyan
		USN-4	As a user, Ican track the performance of the system over time.		Medium	Jai Akash
Facilities Managers			responsible for overseeing the operations and maintenance of industry	monitor the performance of the safety monitoring systems and to make decisions about maintenance and upgrades.		
Emergency Response Teams			responsible for responding to emergencies in the industry.	coordinate a response in the event of a gas leak or other emergency involving fire accidents		

Safety and Security Personnel			responsible for ensuring the safety of workers.	use the health monitoring system to receive alerts and notifications in the event of an issue with the safety system, and to coordinate a response to any issues.		
Administrators			responsible for the overall management of the industry	ensure compliance with safety regulations and to make decisions about budget and resource allocation for the health monitoring system.		

User Type	Functional Requirement (Epic)	User Story Number	UserStory/Task	Acceptance criteria	Priority	Team Member
Administrator			An administrator of automated weather classification using transfer learning is a person who oversees a system that uses advanced technology to analyse and categorize weather conditions automatical ly. This system is designed to learn from existing weather data and apply that knowledge to classify and predict weather patterns in real-time.			