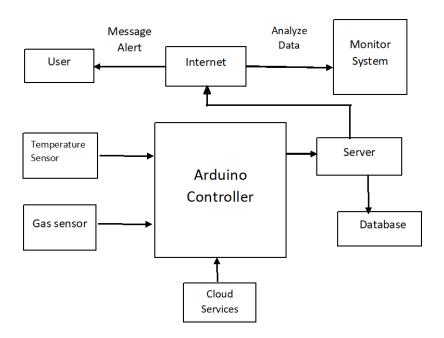
Project Design Phase-II Data Flow Diagram

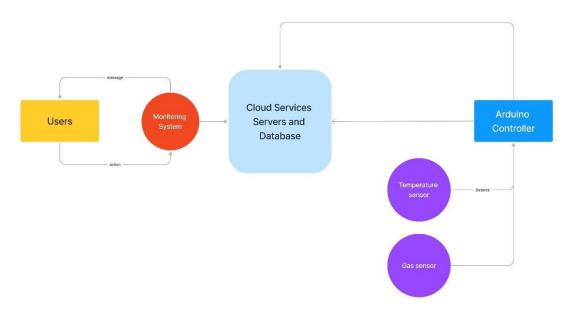
Team ID	PNT2022TMID01194
Project Name	Hazardous Area Monitoring for
	Industrial plant powered by IoT

Simplified Data Flow:



- 1. Gas sensors which detects the presence of hazardous gases and Temperature sensor which measures the temperature are used.
- 2. Arduino controller which reads input and turns into an output.
- 3. Cloud services supports IoT devices and applications and used to store IoT data.
- 4. Servers and Database is used in data management functions.
- 5. The user is given the message alerts with the help of the internet and data is analyzed and area is monitored.

DFD Level 0:



USER STORIES:

User Type	Functional Requirement (Epic)	User Story Number	User Story/ Task	Acceptance criteria	Priority	Release
Technician	Installation	USN-1	As a User, I need to install an application for monitoring the hazards.	Through this application I can able to get the alert message.	High	Sprint- 1
Mobile User	Registration	USN-2	As a User, I can register for the application by entering my email, password and confirming my password.	I can access my account/ dashboard.	High	Sprint- 1
		USN-3	As a User, I will receive confirmation email once I have registered for the application.	I can receive confirmation email & click confirm	High	Sprint-1
		USN-4	As a User, I can register for the application through Facebook.	I can register & access the dashboard with Facebook login	Low	Sprint- 2
		USN-5	As a User, I can register for the application through Gmail.	I can access my account /dashboard.	Medium	Sprint- 1
	Login	USN-6	As a User, I can login to the application by entering email & password	I can register and access my account.	High	Sprint- 1
	Dashboard	USN-7	I can monitor the temperature and humidity.	I can access the account for monitoring the hazardous area.	Medium	Sprint- 2
End User	Alerting through message	USN-8	I can receive message in the form of visual notification and voice message.	I can detect the hazard and receive notification.	High	Sprint- 1

	SMS Notification	USN-9	I can get the alert message if the area has any Hazards.	I can be alerted through the SMS notification.	Medium	Sprint- 2
	Monitoring	USN-10	I can able to monitor the harmful gases, high temperature through mobile application.	I can identify harmful gases, temperature in the field.	Medium	Sprint- 2
Web User	Monitoring	USN-11	As a Web User, I can detect the hazard through the website.	I can monitor the hazards like temperature, humidity, toxic gases.	High	Sprint- 1
Customer Care Executive	Maintenance	USN-12	As an executive, I manage a team of representatives offering customer support.	I need a team of workers to manage the data.	Low	Sprint- 3
Administrator	Administration Work	USN-13	As an Administrator, I can able to access the data through the cloud.	I can access the data sent by the beacon sensor.	High	Sprint- 2