ProjectDesignPhase-II
DataFlowDiagrams&UserStories

Date	18October2022
TeamID	PNT2022TMID26613
ProjectName	Gas leakage monitoring and alerting system for industries
MaximumMarks	4 Marks

DataFlowDiagrams:

Temperaturesensor   Sensordata   Gassensor

IoTdevicecollectingdata

Analyseandshowdata

Alerts
(Administrations,Hospitals,Firestation)

Closingdoorswindowsinc   Resultingaction   incaseofflammable gases

aseofpoisonousgases   Turning ON exhaust fan/sprinklers
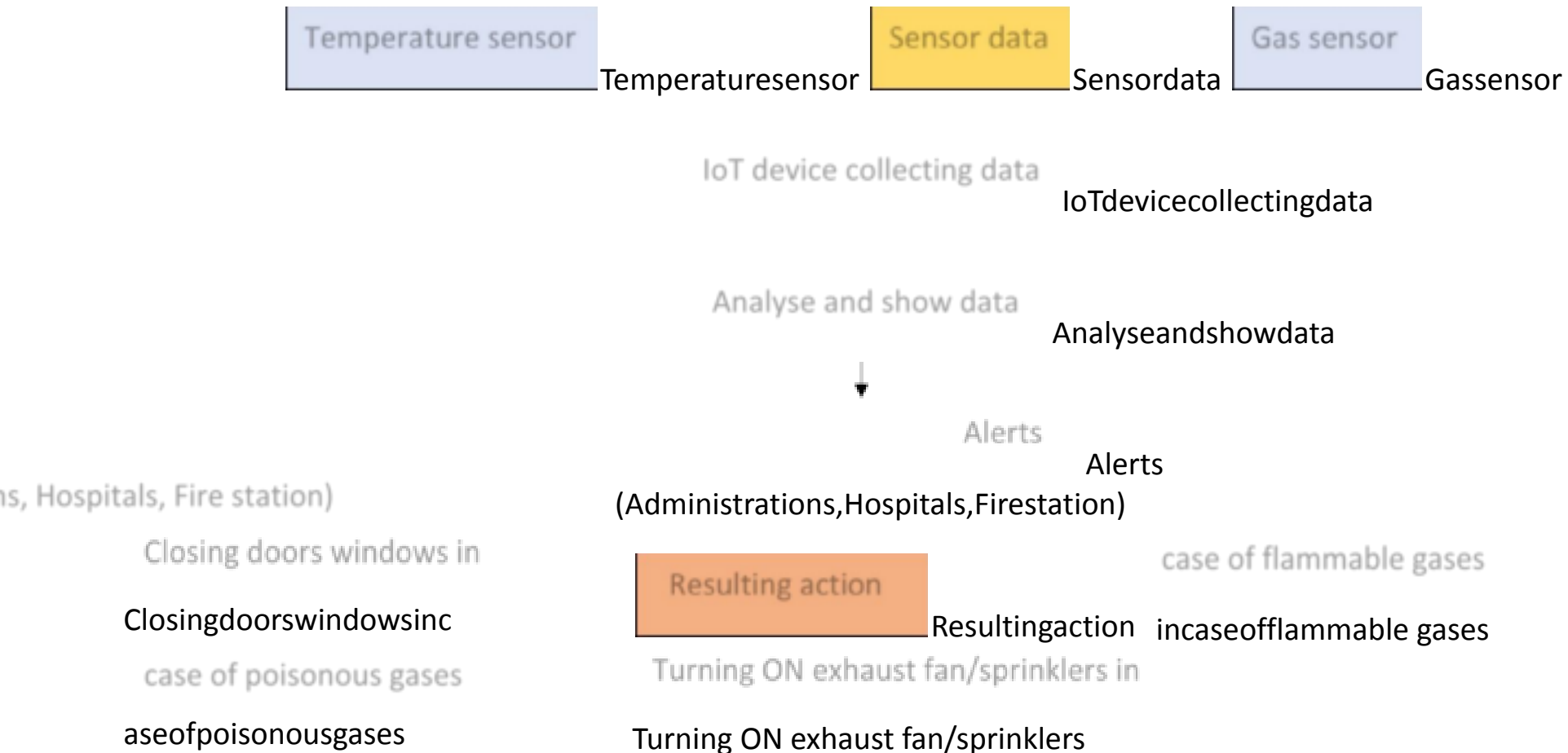
UserStories:

UserType	Functional Req uirement(Ep ic)	UserStory Nu mber	UserStory/Task	Acceptancecriteria	Priority	Release
Customer(Mobi Le user)	Registration	USN-1	Usercanenterintotheweb application	Icanaccessmyaccount/da shboard	High	Sprint-1
		USN-2	Usercanregistertheircredentials like emailidandpassword	Icanreceiveconfirmatione mail&clickconfirm	High	Sprint-1
	Login	USN-3	Usercanlogintotheapplicationbyentering em ail&password	Icanlogintomyaccount	High	Sprint-1
	Dashboard	USN-4	Usercanviewthetemperature	Icanviewthedatagivenbyt he device	High	Sprint-2
		USN-5	Usercanview the levelofgas	I can viewthe data given bythe device	High	Sprint-2
Customer (Webuser)	Usage	USN-1	Usercanviewthe webpageandgettheinformation	Icanviewthedatagivenbyth e device	High	Sprint-3
Customer	Working	USN-1	Useractaccordingtothealertgivenbythe devi ce	Icangetthedataworkac cording toit	High	Sprint-3
		USN-2	UserturnsONtheexhaust fan/sprinklerwhentheleakageoccurs	Icangetthedataworkac cording toit	High	Sprint-4
Customer CareExecutive	Action	USN-1	Usersolvetheproblemswhensomeonefacesany usa geissues	I can solve the issues whensome one fails to understandtheprocedure	High	Sprint-4
Administrator	Administration	USN-1	Userstoreseveryinformation	Icanstorethegainedin formation	High	Sprint-4

FLOWCHART : GAS LEAKAGE MONITORING AND ALERTING SYSTEM

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                    ┌──────────────┐
                    │    Input     │
                    └──────┬───────┘
                           │
                           ▼
                    ◆ Gas Leak ◆ ──NO──▶ ┌──────────────────┐
                           │             │ Yellow LED (Blink)│
                          YES            └────────┬─────────┘
                           │                      │
                           ▼                      │
                    ┌──────────────┐              │
                    │ Red LED Light│              │
                    └──────┬───────┘              │
                           │                      │
                           ▼                      │
                    ┌──────────────┐              │
                    │ Buzzer Active│              │
                    └──────┬───────┘              │
                           │                      │
                           ▼                      │
                    ┌──────────────┐              │
                    │  GSM Module  │              │
                    └──────┬───────┘              │
                           │                      │
                           ▼                      │
                    ┌──────────────┐              │
                    │    Output    │◀─────────────┘
                    └──────────────┘
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