Project Design Phase-II
Data Flow Diagram & User Stories

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Project Name	Industry-Specific Intelligent Fire Management System
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Data Flow Diagrams:

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 right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored

Data Flow Chart

```
                              ┌───────────┐
                              │   Start   │
                              └───────────┘
          │                                              │
          ▼                                              ▼
┌──────────────────────┐              ┌──────────────────────────────┐
│  Detect gas level     │◀──┐          │  Detect any fire is present  │◀──┐
│  using gas sensor     │   │          │  using flame sensor &        │   │
└──────────────────────┘   │          │  temperature sensor          │   │
          │                 │          └──────────────────────────────┘   │
          ▼                 │                      │                       │
        ╱─────╲             │                      ▼                       │
   NO  ╱ If gas ╲           │                  ╱──────────╲                │
  ◀───╱ level is ╲──────────┘            NO   ╱  If temp   ╲               │
       ╲  high   ╱                      ◀────╱  is high or  ╲──────────────┘
        ╲─────╱                              ╲ flame is      ╱
          │ YES                               ╲ detected    ╱
          ▼                                     ╲──────────╱
      Turn ON Fan                                    │ YES
          │                    ☁                     ▼
          └──────────────▶  Cloud  ◀───────   Turn ON Sprinkler
                              │
                              ▼
                         🔊 Alert message
      ┌──────────┐      ◀───       ───▶      ┌──────────────┐
      │ Control  │                            │ Fire station │
      │  Room    │                            └──────────────┘
      └──────────┘                                   │
          │                ┌───────┐                 │
          └──────────────▶ │  End  │ ◀───────────────┘
                           └───────┘
```
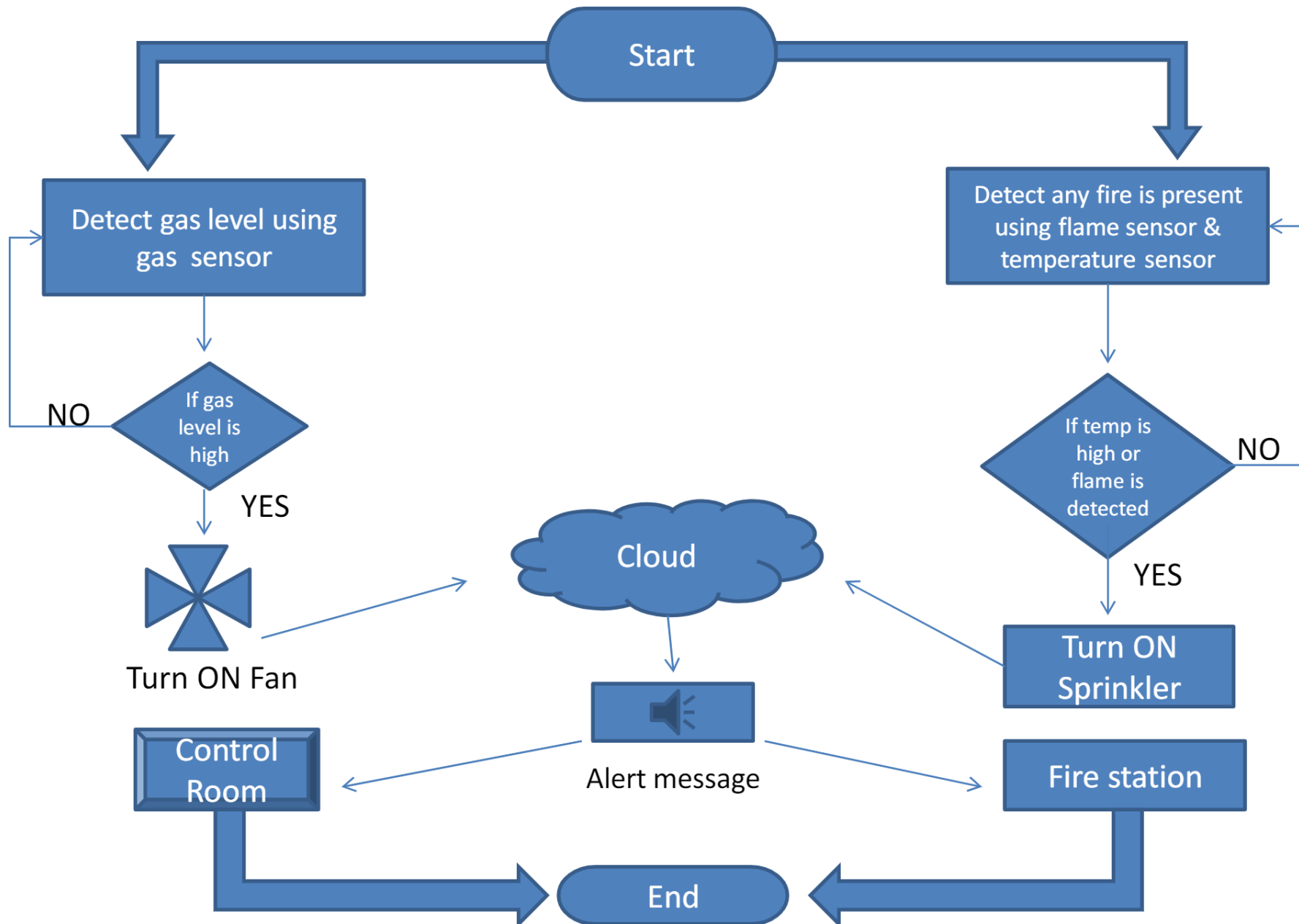
User stories

User type	Functional requirement	Userstory	User story/Task	Acceptancecriteria	Priority	Release
1.Customer(Mobile user,Web user) 2.Customer Care 3.Executive Administrator	Registration	USN-1	User can register for the application through e mail, password and confirming my password	Access account /dashboard	High	Sprint-1
		USN-2	User will receive a confirmation email once,registered for the application	User receive aconfirmation email & click confirm	High	Sprint-1
		USN-3	User can register forthe application through Facebook	User can register &accessthe dashboard with login	Low	Sprint -2
		USN-4	User can register forthe application through Gmail		Medium	Sprint-1

	Login	USN-5	User can log into the application by entering email &password		High	Sprint-1