Project Design Phase-II
Data Flow Diagram & User Stories

Date	10-11-2022
Team Id	PNT2022TMID26362
Project Name	Project-Early detection of forest fire using deep learning
Maximum Marks	4 Marks

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.

Flow:

```
                          ┌──────────────────────────┐
            ┌────────────▶│   Detect fire by sensors  │◀────────────┐
            │             └──────────────────────────┘              │
            │                          │                            │
            │                          ▼                            │
            │             ┌──────────────────────────┐              │
            │             │ Collect data from the sensors│          │
            │             └──────────────────────────┘              │
            │                          │                            │
            │            Yes           ▼              No            │
            │                    ◇ Fire Detected ◇ ─────────────────┘
            │                          │ Yes
            │                          ▼
            │        ┌──────────────────────────┐
            │        │  Activate camera and alert │
            │        │   region control office    │
            │        └──────────────────────────┘
            │                          │
            │                          ▼
            │        ┌──────────────────────────┐
            │        │ Capture video/image and send│
            │        │   data to control room     │
            │        └──────────────────────────┘
            │                          │
     Yes    │                          ▼           No
     └──────┘        ◇ Can be control by ◇ ────────▶ ┌──────────────────────┐
                       region control room           │ Central control room  │
                                                      │ sends help to that region│
                                                      └──────────────────────┘
```
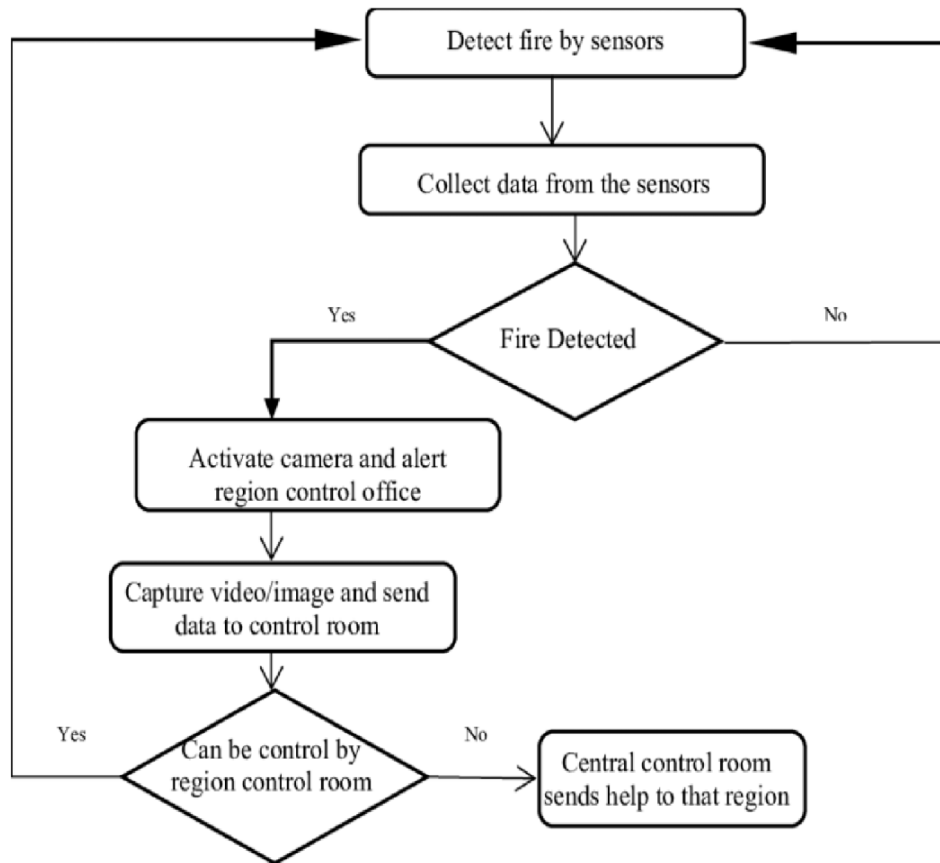
User Stories

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

User Type	Functional Requirement (Epic)	User Story Number	User Story I Task	Acceptance criteria	Priority	Release
Customer officers	Data collection	USN-1	Data of the current situation in forest is to be collected	It is necessary for the data to be collected as a chance to prevent fires	High	Sprint-1
Users	Identification	USN-2	An algorithm is	It is very	Medium	Sprint-2

			used to compare the changes and users to identify	essential for the user to notice it before the alarm		
Customers	Implement Algorithm	USN-3	Identify the accuracy of each algorithms	Accuracy of each algorithm-calculated so that it is easy to obtain the most accurate output	Medium	Sprint-2
Experts	Comparison and accuracy	USN-4	Identify accuracy,precision,recall of each algorithms	These values are important for obtaining the right output	High	Sprint-3
Output and customer care	Displaying the output and taking necessary steps	USN-5	After comparison the output is obtained and if positive a alert is sent	It is highly useful to predict the effect and to take precautionary measures	High	Sprint-4