Project Design Phase-II
Data Flow Diagram & User Stories

Date	11 October 2022
Team ID	PNT2022TMID17719
Project Name	Project - Emerging methods for the Early detection of forest fire
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.

Fig. Data flow Diagram for Emerging methods for early detection of forest fires

```
┌─────────────┐      ┌──────────────┐      ┌──────────────┐
│ Drone video │      │      1       │      │      2       │
│    feed     │ ───> ├──────────────┤ ───> ├──────────────┤
│             │      │ Convert  to  │      │ Model        │
│             │      │ frames       │      │ building     │
└─────────────┘      └──────────────┘      └──────────────┘
```

Using CNN

```
┌──────────────┐      ┌──────────────┐
│      3       │      │      4       │
├──────────────┤ ───> ├──────────────┤
│ Classification│      │ Prediction   │
│              │      │              │
└──────────────┘      └──────────────┘
```

Fire
detected

No Fire detected

```
        ◇
      Fire
      or
      not
        ◇
```

```
┌──────────┐
│  Alert   │
└──────────┘
```
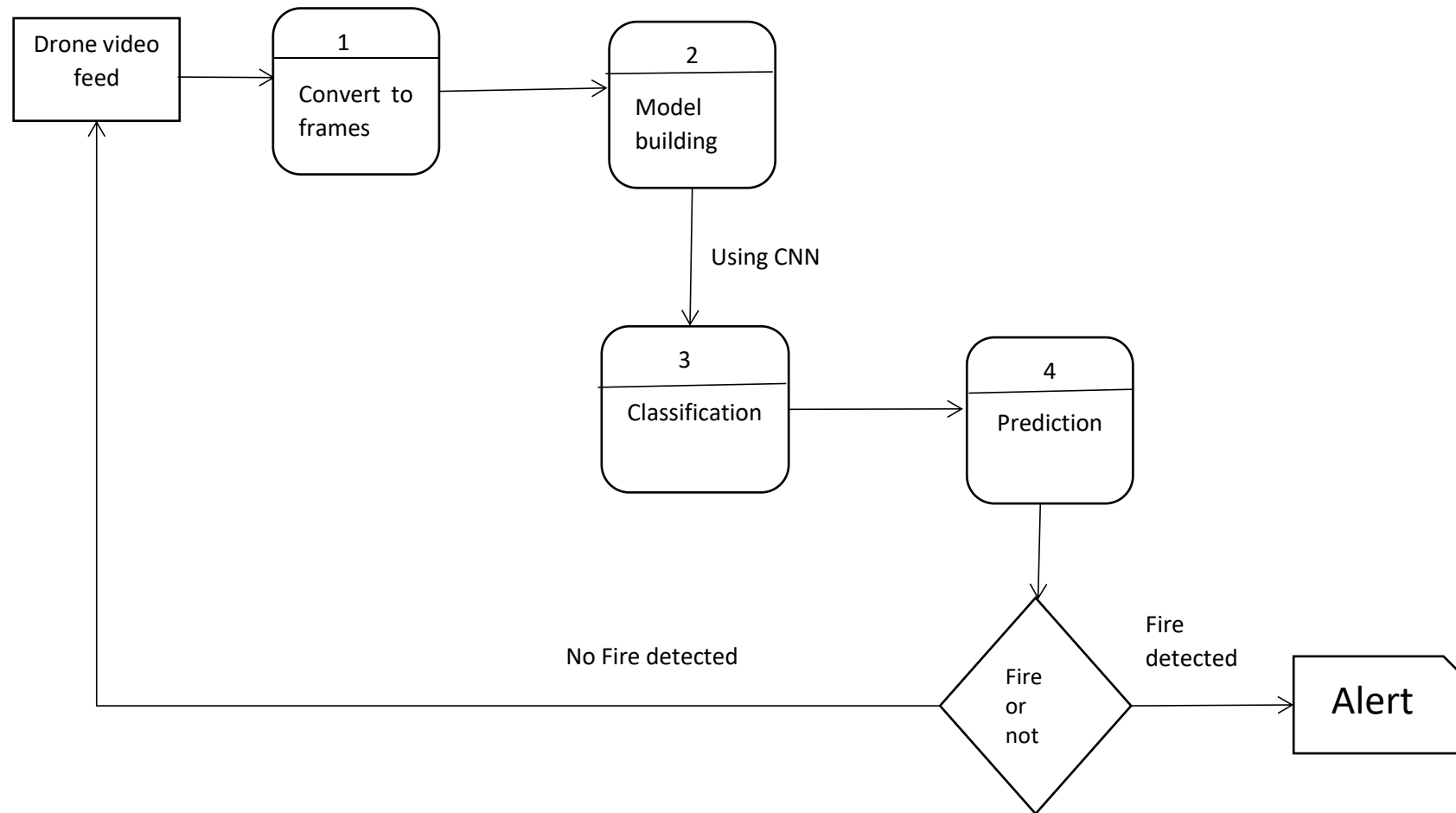
User Stories

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

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Administrator	Video surveillance	USN-1	As an administrator, I have to monitor the video recorded from the drone	I can access my account / dashboard	High	Sprint-3
	Forest monitoring	USN-2	As an administrator, I have to monitor the forest from the input video captured by the drone	I have the access to monitor all time	Medium	Sprint-2
	Detect fire	USN-3	The system has to detect whether there is fire or not.	I have to continuously monitor the status	High	Sprint-1
	Alert	USN-4	As an administrator, I have to conform whether there is fire or not	I must have the right to inform the rescue team	High	Sprint-2