# Project Design Phase-II
# Data Flow Diagram & User Stories

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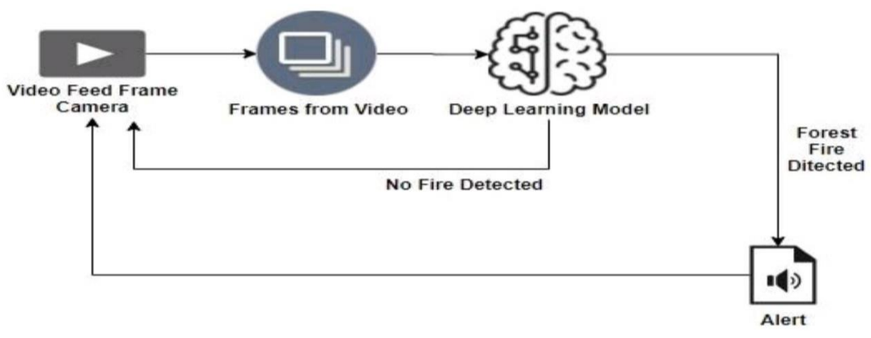
| Date | 31 October 2022 |
| Team ID | PNT2022TMID47227 |
| Project Name | Emerging Methods For Early Detection Of Forest Fires |
| Maximum Marks | 4 Marks |

**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.

**Example:**

FLOW



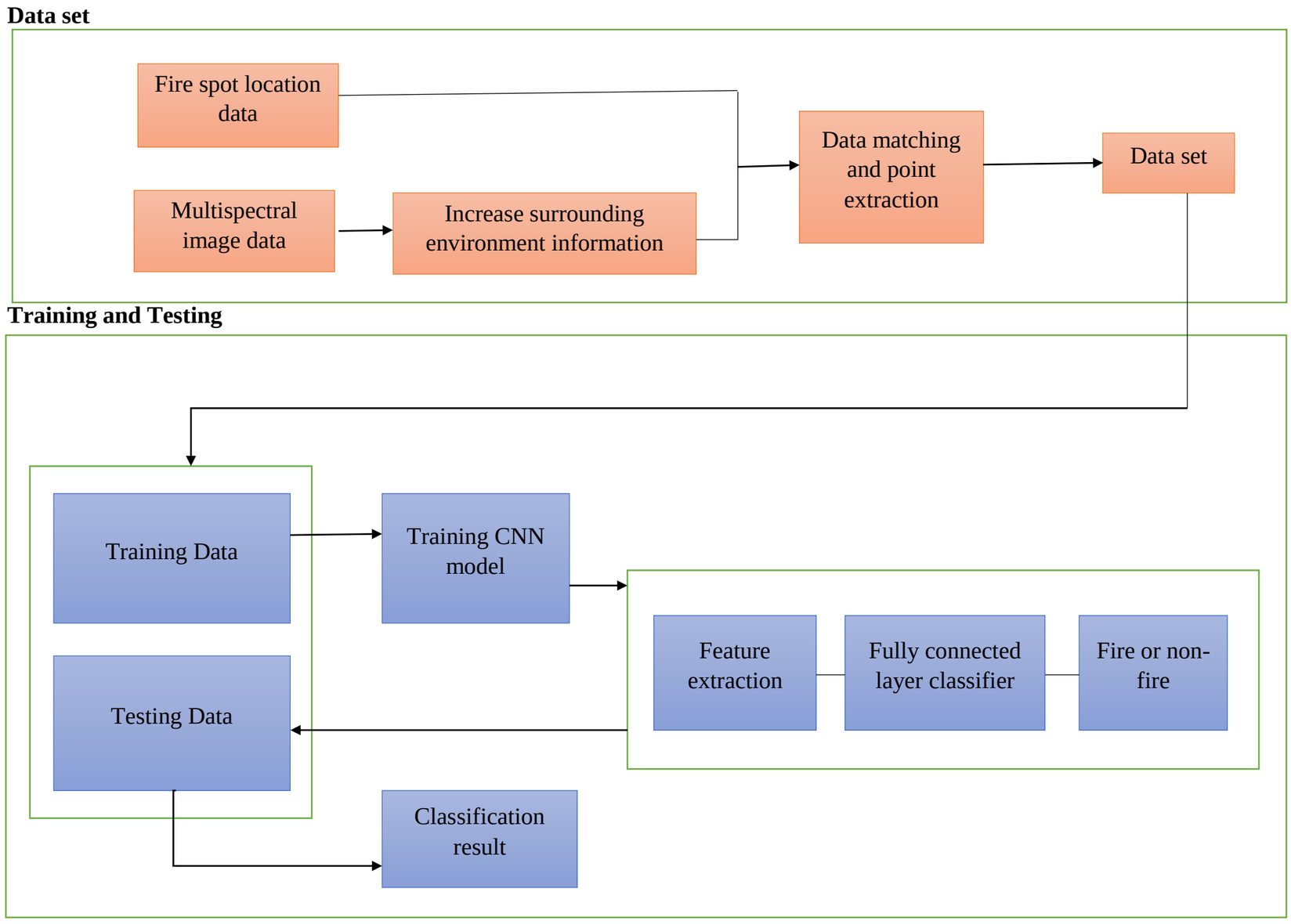

It is difficult to predict and detect Forest Fire in a sparsely populated forest area.

it is more difficult if the prediction is done using ground-based methods like Camera or Video-Based approach.

Satellites can be an important source of data prior to and also during the Fire due to its reliability and efficiency.

The various real-time forest fire detection and prediction approaches, with the goal of informing the local fire authorities.

# Dataflow Diagram:



## User Stories :

| User Type | Functional Requirement (Epic) | User Story Number | User Story / Task | Acceptance criteria | Priority | Release |
|---|---|---|---|---|---|---|
| Environment | Collect the data | USN-1 | It is necessary for an animal rights activist to gather information about forest fires. | We must collect the correct data. Because of prediction | High | Sprint-1 |
| | | USN-2 | Determine which algorithms can be used for prediction. | To gather the algorithms and determine the accuracy of each algorithm. | Medium | Sprint-2 |
| | Implement Algorithm | USN-3 | Determine the accuracy of each algorithm | The accuracy of the algorithm is must be calculated | High | Sprint-2 |
| | | USN-4 | Assess the data set | Data is preprocessed before the training | High | Sprint-16 |
| | Evaluate Accuracy of Algorithm | USN-5 | Decide the precision, accuracy, as well as recall of each algorithm. | Accuracy is important to detect the severity of the fire | High | Sprint-3 |