Project Design Phase-II
Data Flow Diagram
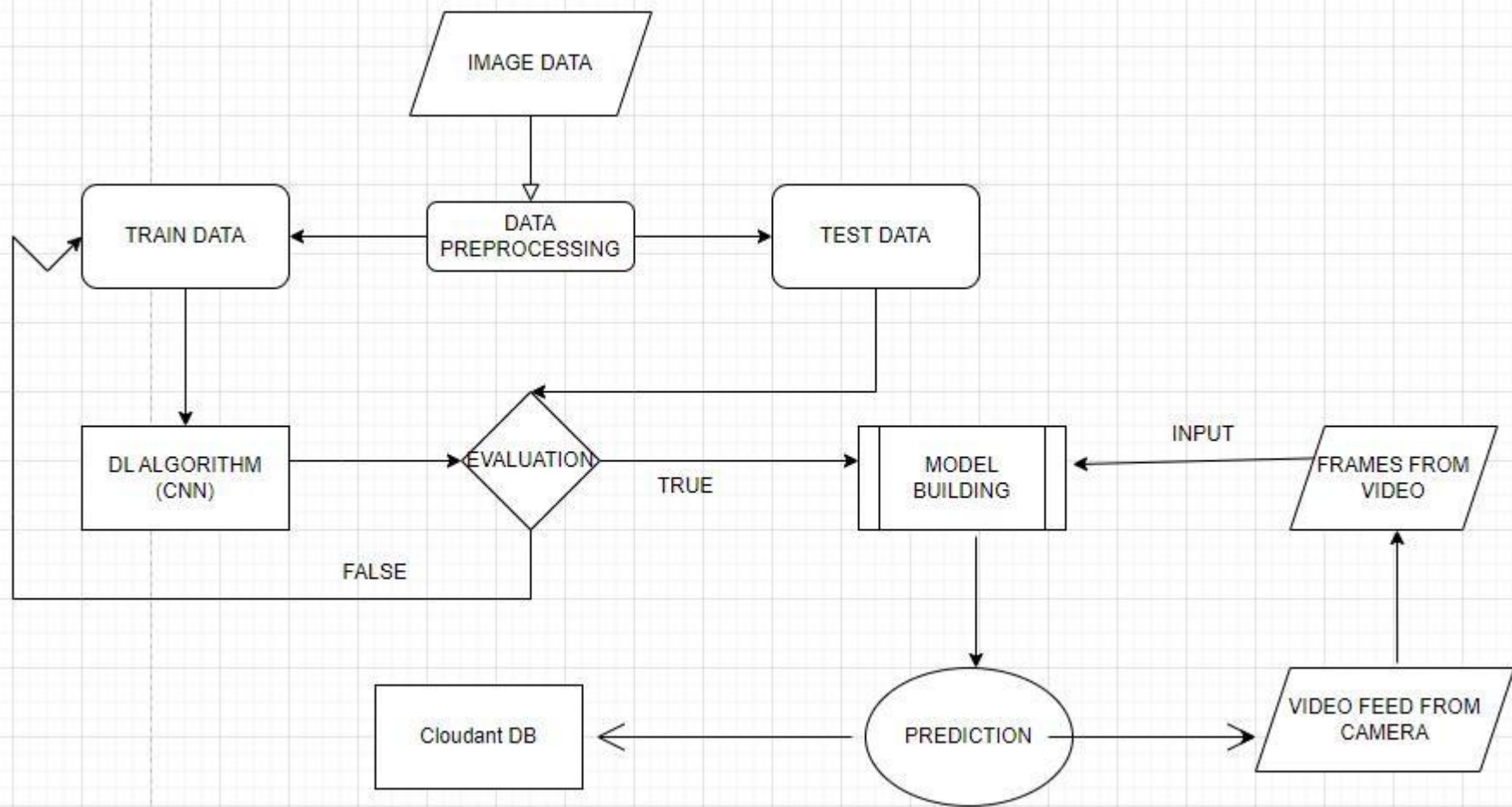
Date	15 October 2022
Team ID	PNT2022TMID00210
Project Name	Project - Natural disaster intensity analysis and Classification using AI
Maximum Marks	4 Marks

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: DFD Level 0 (Industry Standard)

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                              ┌─────────────────┐
                              │   IMAGE DATA    │
                              └─────────────────┘
                                       │
                                       ▼
  ┌──────────────┐      ┌─────────────────┐      ┌──────────────┐
  │  TRAIN DATA  │◄─────│      DATA       │─────►│  TEST DATA   │
  │              │      │ PREPROCESSING   │      │              │
  └──────────────┘      └─────────────────┘      └──────────────┘
         │                                               │
         ▼                                               │
  ┌──────────────┐      ◆                                │
  │ DL ALGORITHM │─────► EVALUATION ──TRUE──►┌──────────────┐   INPUT   ┌──────────────┐
  │    (CNN)     │       ◆                   │    MODEL     │◄──────────│ FRAMES FROM  │
  └──────────────┘                           │   BUILDING   │           │    VIDEO     │
                 FALSE                        └──────────────┘           └──────────────┘
                                                     │
                                                     ▼
  ┌──────────────┐                           ┌──────────────┐           ┌──────────────┐
  │  Cloudant DB │◄────────────────────────  │  PREDICTION  │─────────► │VIDEO FEED FROM│
  │              │                           │              │           │    CAMERA     │
  └──────────────┘                           └──────────────┘           └──────────────┘
```

IMAGE DATA

DATA PREPROCESSING

TRAIN DATA

TEST DATA

DL ALGORITHM (CNN)

EVALUATION

TRUE

FALSE

MODEL BUILDING

INPUT

FRAMES FROM VIDEO

Cloudant DB

PREDICTION

VIDEO FEED FROM CAMERA
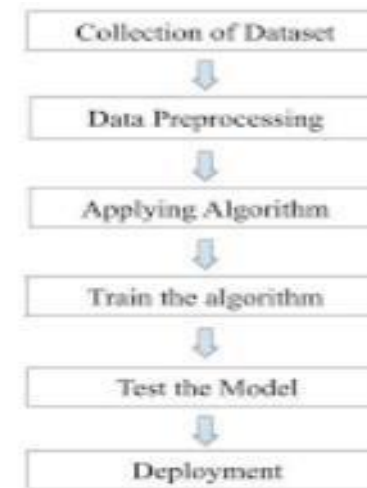
User Journey

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
		USN-3	As a user, I can register for the application through Facebook	I can register & access the dashboard with Facebook Login	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail	I can register & access the dashboard with Gmail Login	Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password	I can login & access my account with my registered credentials	High	Sprint-1
	Dashboard	USN-6	As a user, I can access the services and information provided in the dashboard	I can upload the images, I can view the result, I can edit my profile and I can view my history	High	Sprint-1
Customer (Web user)	Login	USN-7	As a user, I can log into the web application and access the dashboard	I can login with the same registered credentials and access my account through web application	High	Sprint-1

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer Care Executive	Help Desk	USN-8	As a user, I can get the guidance from the customer care	I can get help from the customer care for carrying out my tasks	High	Sprint-2
Administrator	Management	USN-9	As an administrator, I can collect new datasets and keep the model trained	I can collect and train the model with new dataset frequently	High	Sprint-2
		USN-10	As an administrator, I can update other features of the application	I can update and tune the features of application if needed	Medium	Sprint-1
		USN-11	As an administrator, I can maintain the information about the user	I can maintain information like user type and other such information	Medium	Sprint-1
		USN-12	As an administrator, I can maintain third-party services	I can support and maintain any third-party services	Low	Sprint-2