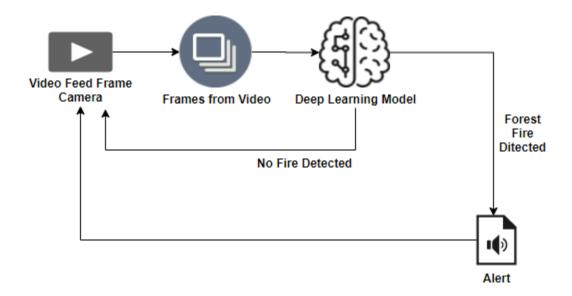
## Project Design Phase-II Technology Stack (Architecture & Stack)

Date	13 October 2022
Team ID	PNT2022TMID39062
Project Name	Project – Emerging methods for early detection
	of forest fires

## **Technical Architecture:**

The Deliverable shall include the architectural diagram as below and the information as per the table 1 & table 2

## **Example: Order processing during pandemics for offline mode**



## Guidelines:

- Include all the processes (As an application logic / Technology Block)
- 2. Provide infrastructural demarcation (Local / Cloud)
- 3. Indicate external interfaces (third party API's etc.)
- 4. Indicate Data Storage components / services
- 5. Indicate interface to machine learning models (if applicable)

Table-1 : Components & Technologies:

	Description	Latency	Data Enrichment	Rate	Window Type	Window Size
1	data enrichment requirement	-	High	Low	Sliding	Large
2	data enrichment requirement	-	High	High	Sliding	Large
3	Latency requirement	Low	-	Low	Tumbling	Small
4	Latency requirement	Low	-	High	Tumbling	Small
5	latency requirement and And enrichment have the Same priority	Medium	Medium	High	Session	Large

**Table-2: Application Characteristics:** 

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Technology of Opensource framework
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Technology used
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	Technology used
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Technology used