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

Date 20 October 2022

Team ID PNT2022TMID19667

Project Name Emerging method for Early Detection

of Forest Fires

Maximum Marks 4 Marks

Technical Architecture:

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

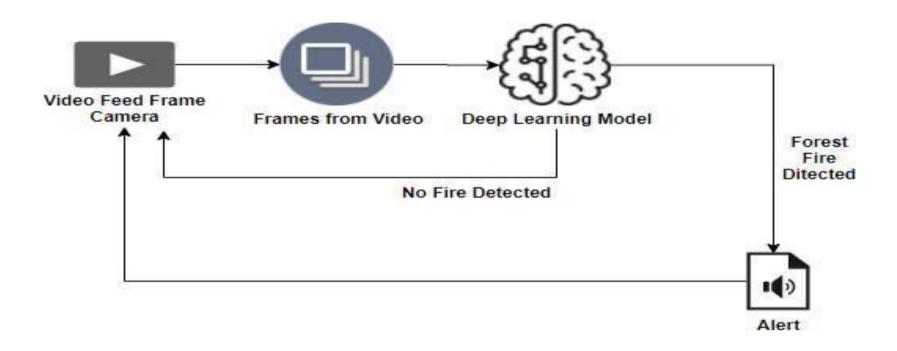


Table-1: Components & Technologies:

S.No	Component	Description	Technology
1.		How user interacts with application e.g. Mobile App, database system	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application Logic-1	Logic for a process in the application	Java / Python

moke sensor atabase loud Database	Logic for a process in the application Data Type, Configurations etc. Database Service on Cloud	MQZ, etct MySQL, NoSQL, etc.
		MySQL, NoSQL, etc.
loud Database	Database Service on Cloud	
	Database Service of Cloud	IBM DB2, IBM Cloudant etc.
atabase system	File storage requirements	Other Storage Service or Local Filesystem
otarywing UAV	Purpose of firefighting used in the application	IBM Weather API, etc.
Fixedwing UAV	Purpose of weather monitoring.used in the application	Aadhar API, etc.
lachine Learning Model	Purpose of Machine Learning Model	Object Recognition Model, etc.
nfrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration:	Local, Cloud Foundry, Kubernetes, etc.
F	otarywing UAV Fixedwing UAV achine Learning Model	Purpose of firefighting used in the application Purpose of weather monitoring.used in the application Purpose of weather monitoring.used in the application Purpose of Machine Learning Model Purpose of Machine Learning Model Application Deployment on Local System / Cloud

	Cloud Server Configuration :	

Table-2: Application Characteristics:

S.I	No	Characteristics	Description	Technology
	1.	Open-Source Frameworks	List the open-source frameworks used	Technology of Opensource framework
	2.		1	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.

3.	Justify the scalability of architecture (3 – tier, Microservices)	Technology used
4.	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	Technology used
5.	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Technology used