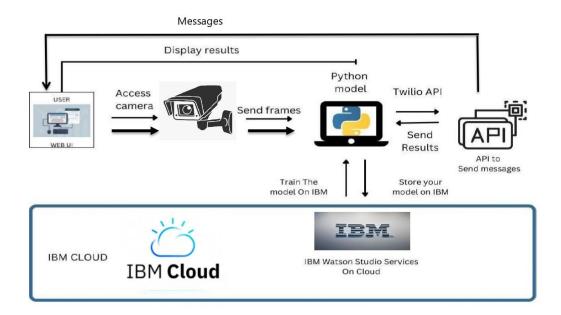
# **Project Design Phase-II**

# **Technology Stack (Architecture & Stack)**

Date	14 October 2022	
Team ID	PNT2022TMID50673	
Project Name	Emerging Methods For Early	
	Detection Of Forest	
Maximum Mark	4 Marks	

### **Technical Architecture:**



#### Table-1:

### **Components & Technologies:**

S.N	Components	Description	Technology
0			
1.	User Interface	The user uses the	Python/HTML,CS

		console to access the	S,Javascript and
2.	Input	Video feed	react.Js Web camera/video on a site
3.	Conversion	Video inputed is converted into frames	Frame Convertor
4.	Feeding the model	The frames are sent to the deep learning model	Our model
5.	Dataset	Using test set and train set, train the model	Data set from cloud storage, databas e
6.	Cloud Database	The model is trained in the cloud more precise with detections more images cqan be added later on	IBM Cloudant ,Python Flask
7.	Infrastructure( Server/Cloud), API	Application deployment on local system/cloud local,cloud server configuration,Twilio API tosend messages	Java/Python,Rea ct,Js,Java script,HTML,CSS, IBMCloud,OPEN CV,Anaconda Navigator,Local

## Table-2:

## **Application Characteristics:**

S.No Characteeristics Description	Technology
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Open source		Technology of
frameworks	framework is	opensource
	used	frameworks
Security	Mandatory	SHA-
implementation	Access	256,Encryption,I
S	Control(MAC)	AM
	and preventive	Controls,OWASP
	security control	
	is used	
Scalable	High scalability	Web srver-
Architecture	with 3-tier	HTML,CSS,Javasc
	architecture	ript application
		server-
		Python, Anacond
		a Database
		server-IBM DB2
Avalability	Use of load	IBM Load
	balancing to	balancer
	distribute traffic	
	across servers	
Performance	Enhance the	IBM Content
	performance by	Delivery
	using IBM CDN	Network
	Security implementation s  Scalable Architecture  Avalability	frameworks  Security implementation s  Control(MAC) and preventive security control is used  Scalable Architecture  Avalability  Avalability  Use of load balancing to distribute traffic across servers  Performance  Enhance the performance by