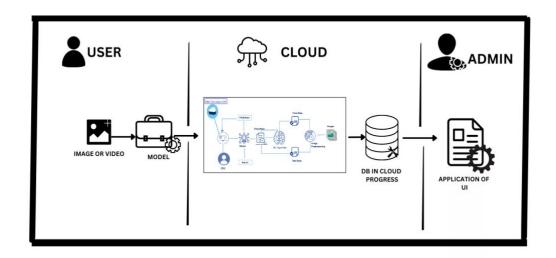
## Project Design Phase-II Technology Stack (Architecture & Stack)

Date	04 October 2022
Team ID	PNT2022TMID30316
Project Name	Intelligent Vehicle Damage Assessment and
	Cost Estimator for Insurance Companies
Maximum Marks	4 Marks

## Technical Architecture:



**Table-1: Components & Technologies:** 

S.No	Component	Description	Technology
1.	Camera	User can predict the damages	HTML, Python,etc.
		with camera	
2.	Process	It process the set of images to	Python
		pre-processed and to be	
		analysed	
3.	Cloud Database	The IBM cloud database	IBM cloud_DB
		contains non structural data	
		such as dataset and damaged	
		vehicle images	
4.	File Storage	The input files to be stored as	IBM block storage or
		IBM cloud	other storage service
5.	Deep learning Model	The deep learning model to	Algorithm-Support
		use of Image segmentation	Vector Machine
		and damage detection	
6.	Infrastructure	Application deployment on	Cloud servers and other
		insurance companies	cloud services.

## **Table-2: Application Characteristics:**

S.No	Characteristics	Description	Technology
1.	Open-Source	Backend and Frontend	Python,IBM cloud
	frameworks	framework	
2.	Security	It is done by each companies	IAM controls and SSH key.
	Implementations	to use the method and user	
		protection.	
3.	Scalable	Large number of images can	Numpy,pandas
	Architecture	be accessed and detects the	
		damage using data framing	
4.	Availability	It is increased by using	IBM cloud network and
		application load balancers.	security.
5.	Performance	The detection should be	IBM load balancers
		accurate and estimate the	
		damage level.	