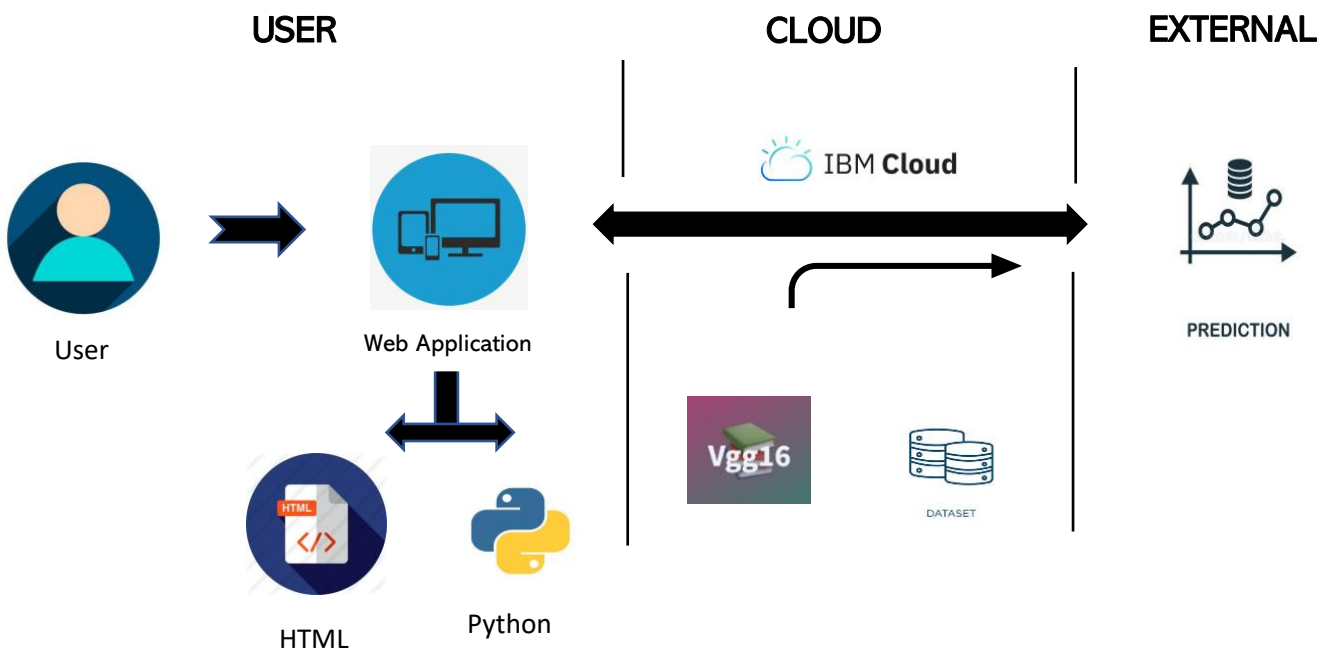


## PROJECT DESIGN PHASE-II

### TECHNOLOGY STACK (ARCHITECTURE & STACK)

DATE	26 October 2022
TEAM ID	PNT2022TMID47699
PROJECT NAME	Project – Intelligent Vehicle Damage Assessment and Cost Estimator for Insurance Companies
MAXIMUM MARKS	4 marks

#### TECHNICAL ARCHITECTURE :



**TABLE 1 : Components & Technologies**

S.NO	COMPONENTS	DESCRIPTION	TECHNOLOGY
1	User Interface	User interact with Web application	HTML
2	Application logic 1	Build HTML page for login, Registration, Prediction ,Logout	Python ,WSGI application.
3	Application logic 2	VGG16 is object detection and classification algorithm which is able to classify 1000 images of 1000 different categories with 92.7% accuracy.	Python
4	Image Data Generator	Data generator has been used to constructed for train and test	Python
5	Cloud Database	IBM CloudIdentity & Access Management enables you to securely authenticate users and control access to all consistently.	IBM Bluemix cloud platform.
6	File storage	File storage requirements	Local file system or Other storage service
7	External API 1	Registration through email.	HTML page
8	External API 2	Confirmation via email	Email
9	Infrastructure ( Server & cloud)	Database has been Installed to run a service and	IBM Bluemix cloud platform.

		deployed in IBM cloud instance	
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**TABLE 2: Application characteristics**

S.NO	CHARACTERISTICS	DESCRIPTION	TECHNOLOGY
1	Security implementation	Careful examine about choosing an image for detecting or uploading images of your damaged skin.	Encryption
2	Scalable Architecture	This method is ensured accurate information about patient skin disease.	Deep learning
3	Availability	Help to get correct treatment at a correct time which help patients to get heal in earlier stage.	Image Preprocessing
4	Performance	The trained model can predict an accurate result and took less time when compare to reality	IBM cloud