PROJECT DESIGN PHASE-II
TECHNOLOGY STACK (ARCHITECTURE & STACK)

DATE	30 October 2022
TEAM ID	PNT2022TMID44098
PROJECT NAME	Project – Intelligent Vehicle DamageAssessment and Cost Estimator for Insurance Companies
MAXIMUM MARKS	4 marks

TECHNICAL ARCHITECTURE :

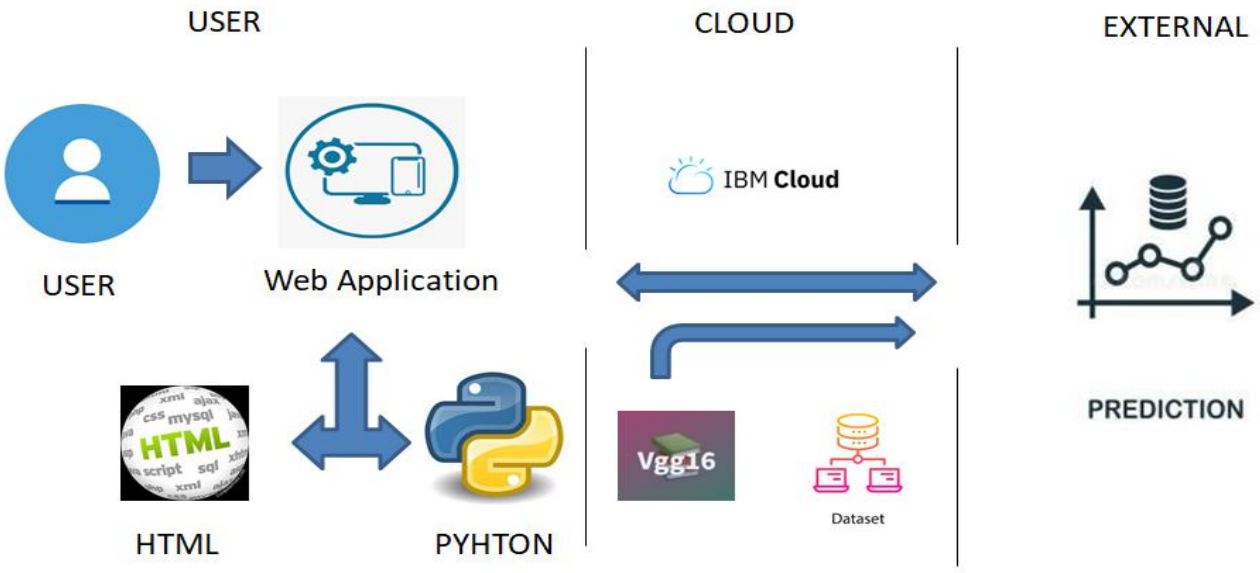

TABLE 1 : Components & Technologies

S.No	COMPONENTS	DESCRIPTION	TECHNOLOGY
1	User Interface	User interact with Web application	HTML
2	Application logic 1	Build HTML page forlogin, 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 DataGenerator	Data generator has been used to constructed for train and test	Python
5	Cloud Database IBM	IBM Cloud Identity & Access Management enables you to securely authenticate users and control access to all consistently	IBM Bluemix cloud platform
6	File storage	File storage requirement	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	IBM Bluemix cloud platform

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 dam aged portion of vehicle	Encryption
2	Scalable Architecture	This method is ensured accurate information about The claim predicted amount	Deep learning
3	Availability	Help to get estimated amount at a time which help customer to claiwm insurance 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