PROJECT DESIGN PHASE-II

TECHNOLOGY STACK (ARCHITECTURE & STACK)

DATE	17 November 2022
TEAM ID	PNT2022TMID25422
PROJECT NAME	Project – Intelligent Vehicle Damage Assessment and Cost Estimator for Insurance Companies
MAXIMUM MARKS	4 marks

TECHNICAL ARCHITECTURE :

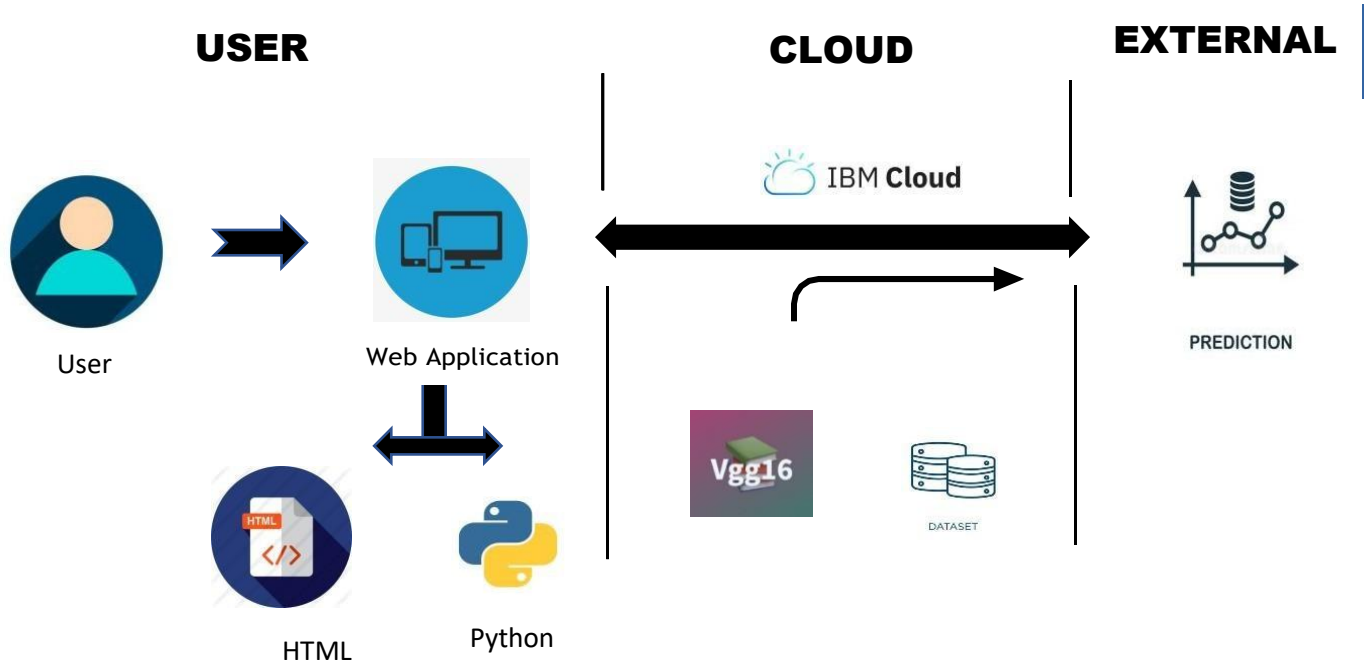

TABLE 1 : Components & Technologies

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 generatorhas been used to constructed for train and test	Python
5	Cloud Database	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 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 Installedto run a service and	IBM Bluemix cloud platform.

		deployed in IBM cloud instance	

TABLE 2: Application characteristics

S.NO	CHARACTERISTICS	DESCRIPTION	TECHNOLOGY
1	Security implentation	Careful examine about choosing an image for detecting or uploading images of your damaged 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 claim 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