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

Date	03 October 2022
Team ID	PNT2022TMID25016
Project Name	Project-Intelligent Vehicle Damage Assessment and Cost Estimator for Insurance Companies
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

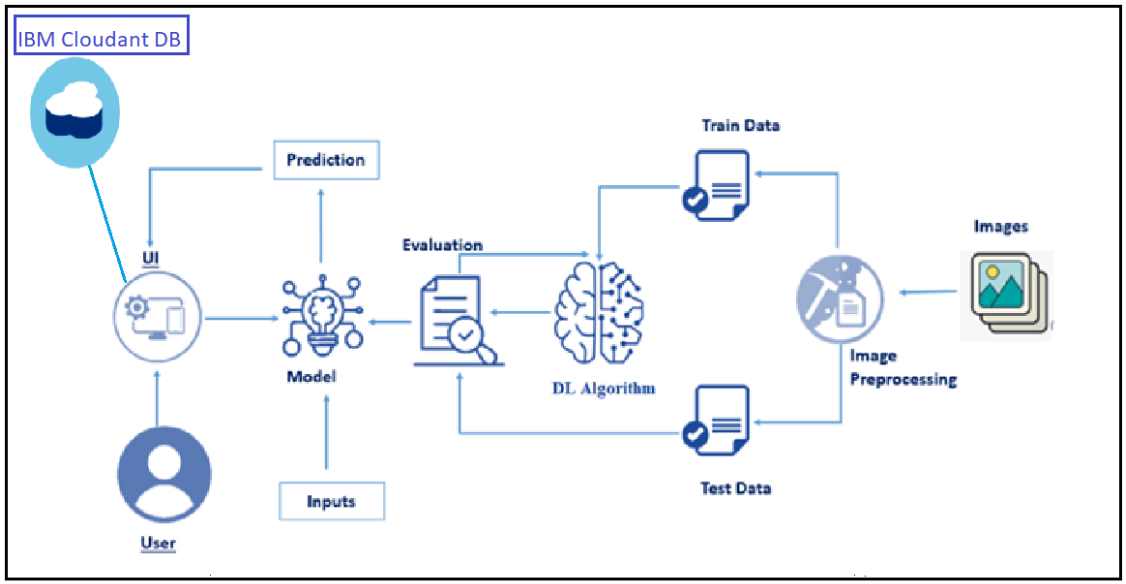

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	The user is interacting with the application using the web UI	HTML, CSS
2.	Application Logic-1	Logic for the process is using python for the script of Flask	Flask API, Python
3.	Application Logic-2	Logic for the process ids interacting with the admin by using submission form in website	Gmail
4.	Application Logic-3	To deploy the model on the IBM cloud	IBM Watson Studio
5.	Cloud Database	The IBM cloud object storage service is used to store the dataset on the cloud	IBM Cloud Storage Services
6.	External API-1	IBM Watson Studio is used to run the jupyter notebook	IBM Watson Studio
7.	External API-2	In order to train the model we can use of Machine Learning Services	Deep Learning Services
8.	Machine Learning Model	Deep Learning Model is used in order to predict the damage of the car.	Convolutional Neural Network Model
9.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud	IBM Cloud

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Jupyter notebook is web-based open source software which is used for creating and sharing documents, containing live code.	Python, Jupyter
2.	Security Implementations	Security information controls the user privacy.	No user equipment
3.	Scalable Architecture	Cloud can be used to deploy so that many number of users can be supported.	IBM Watson
4.	Availability	Website ids providing easier steps to the customer who using it to fill the submission form.	ML Model
5.	Performance	Deep learning classifier model is used for the effective performance and accurate result to protect user credential.	Convolutional Neural Network Model