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

Date	01 November 2022
Team ID	PNT2022TMID18231
Project Name	Intelligent Vehicle Damage Assessment and Cost Estimator for Insurance Companies
Maximum Marks	4 Marks

Technical Architecture:

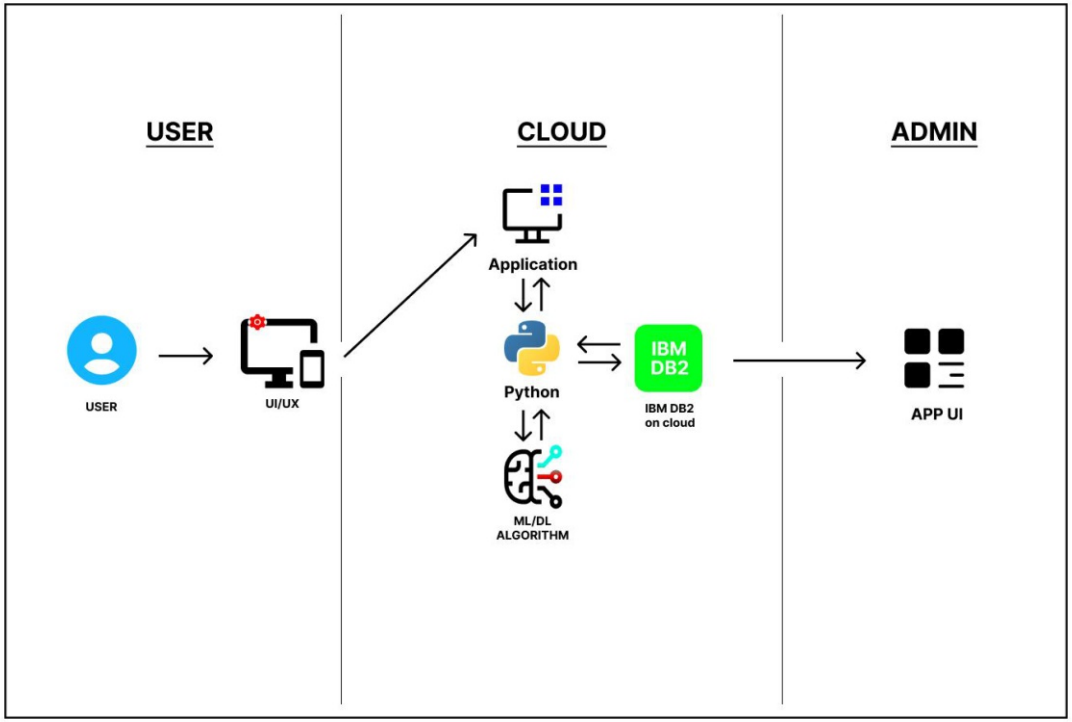

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Using Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript / Angular Js / React Js.
2.	Application Logic-1	Application mainly used for predicting cost.	Java / Python
3.	Application Logic-2	It is used for detecting damaged parts.	IBM Watson STT service
4.	Application Logic-3	The Customer claims Insurance from the companies .	IBM Watson Assistant
5.	Database	Data Type, Configurations, Data set are used in the database.	MySQL.
6.	Cloud Database	The Vehicle data is stored in Cloud database for retrieval uses.	IBM DB2, IBM Cloudant
7.	File Storage	In application, it contains all data types in file storage.	IBM Block Storage or Other Storage Service or Local Filesystem.
8.	External API	To perform a designed function built around sharing data and executing pre-defined processes.	IBM Weather API.
9.	Machine Learning Model	The purpose of machine learning, make decisions only based on the given input.	Object Recognition Model.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Python open-source frameworks used	Python
2.	Security Implementations	It is secure to claim the insurance from the company with efficiency.	AI
3.	Scalable Architecture	To measure the accurate cost for the damage of a vehicle.	Python
4.	Availability	It is accessible for both insurance companies and vehicle owners to estimate the cost of damage.	AI
5.	Performance	Detecting the damage of any kind of vehicle, It may be minor or major damage.	Python,CNN.