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Date	8 november 2022
Team ID	PNT2022TMID50946
Project Name	Intelligent Vehicle Damage Assessment & CostEstimator for Insurance Companies
Maximum Marks	4 Marks

Technology Architecture

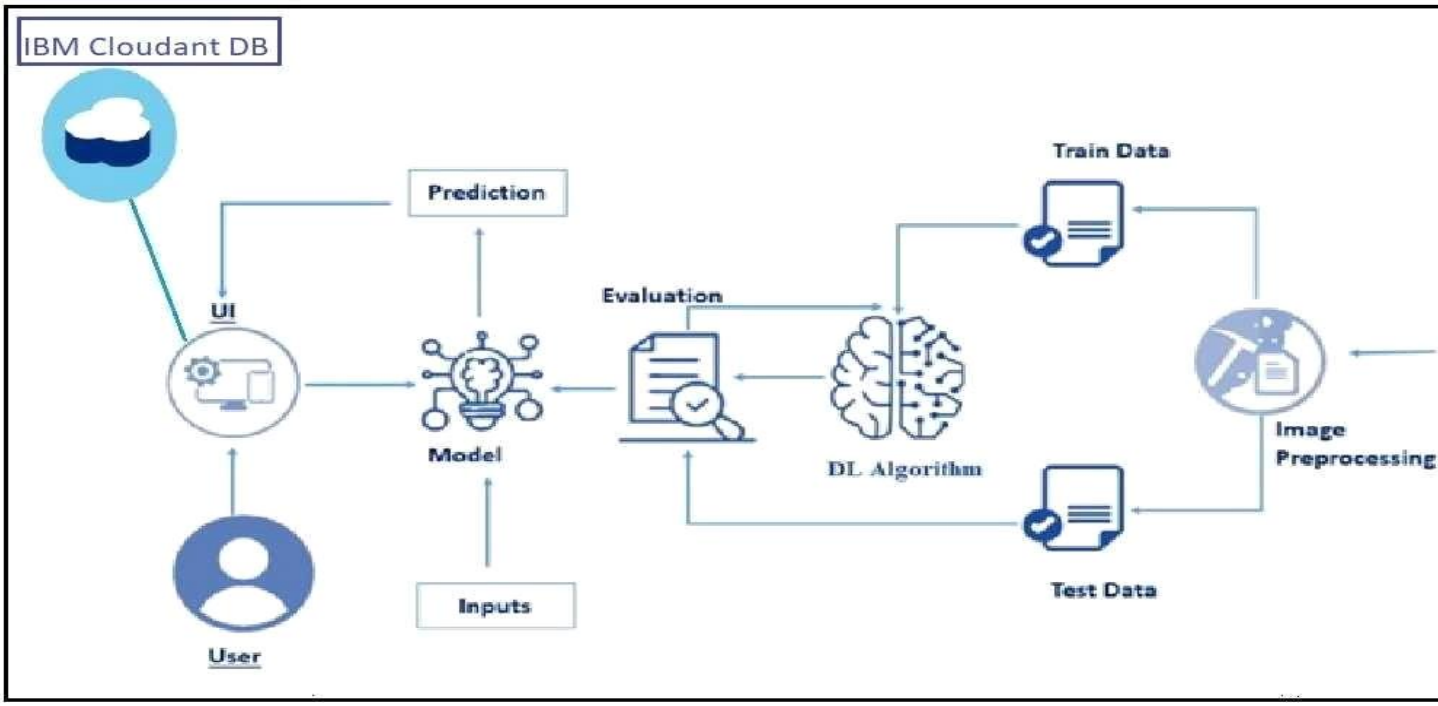
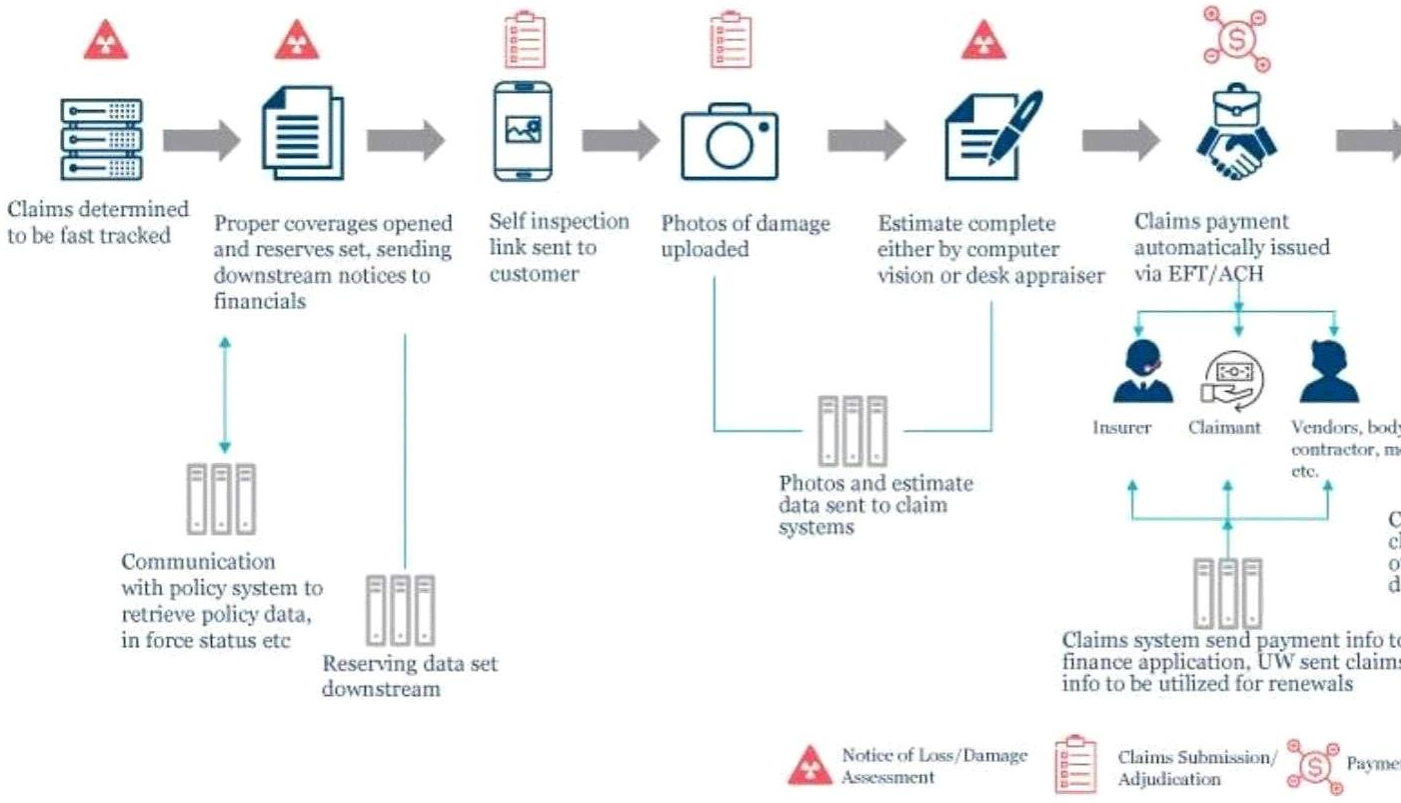


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	The user interacts with the web UI application.	HTML, CSS, python
2.	Application Logic-1	Getting user input image	Python
3.	Application Logic-2	Getting model output for damage prediction	IBM Watson STT service
4.	Application Logic-3	Getting model output for cost estimation	IBM Watson Assistant
5.	Database	Data Type – Images and user inputs details are stored	MySQL, NoSQL, etc.
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
7.	File Storage	Received user details and received user input images ofthe vehicle is stored in cloud	IBM Block Storage
8.	Machine Learning Model	Purpose of the AI Model is for estimating the cost of thedamaged vehicle.	Object Recognition Model
9.	Infrastructure (Server / Cloud)	On cloud server we will be deploying the AI Modelusing flask in the web page	Python flask.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Open-source frameworks used is IBM Watson	Technology of Open Source framework,IBM Watson
2.	Security Implementations	IBM Cloud	Certified Watson assistant for Encrypted file systems, Encrypted storage systems, Key management systems.
3.	Scalable Architecture	Web server - static and dynamic website content presentin the website will be update based upon user demands and suggestion Application server - updating of the basic functionality of the website and integration of newlogic within the website can be done Database server - based upon the varying inputs given by the user the database will be modified constantly	IBM Watson Assistant, Python, MySQL
4.	Availability	The AI model is made available instantly to user at anypoint of time	IBM Watson Cloud assistance
5.	Performance	IBM Watson –automate processes, The deep learning model is trained using IBM Watson studio for better performance and quick accessibility.	IBM Watson Assistant


Claims determined to be fast tracked
Proper coverages opened and reserves set, sending downstream notices to financials
Self inspection link sent to customer
Photos of damage uploaded
Estimate complete either by computer vision or desk appraiser
Claims payment automatically issued via EFT/ACH
Insurer
Claimant
Vendors, body contractor, m etc.
Communication with policy system to retrieve policy data, in force status etc
Reserving data set downstream
Photos and estimate data sent to claim systems
Claims system send payment info t finance application, UW sent claim info to be utilized for renewals
Notice of Loss/Damage Assessment
Claims Submission/ Adjudication
Payme