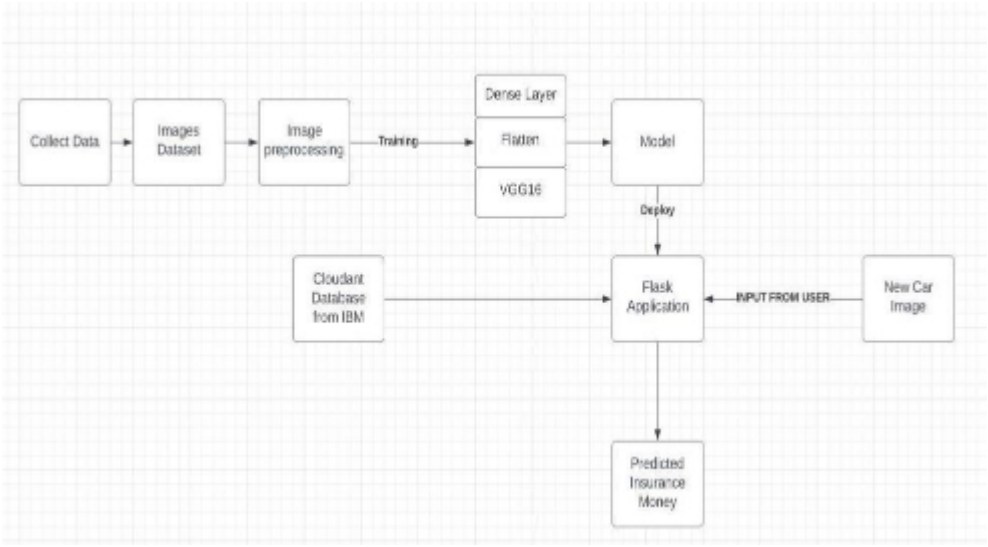
Project Design Phase-II Technology Stack (Archi

t e c t u r e & S t a c k)

D	15
T	PNT202
Pr oj	Intelligent Vehicle Damage Assessment & Cost Estimator for
Maxi	4

Technical Architecture:

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



Guidelines:

1. Include all the processes (As an application logic / Technology Block)
2. Provide infrastructural demarcation (Local / Cloud)
3. Indicate external interfaces (third party API's etc.)
4. Indicate Data Storage components / services
5. Indicate interface to machine learning models (if applicable)

Table-1 : Components & Technologies:

S. No	C o	D o	T o
1.	U s	User interacts with application Web UI	HTML, CSS, Python flask, keras.
2.	Applic ation	U s	H T
3.	Applic ation	P r	A I
4.	Applic ation	W e	IBM Watson Assistant, Flask
5.	D a	No external databases	No Technolog
6.	Clo ud	Database Service on Cloud, Model building in cloud	IBM DB2, IBM Cloudant etc.
7.	F i	No act	No action
8.	E xt	To predict the damage of the	M o
9.	E xt	To find the cost based on vehicle damage	C O
10	Machine Learning	The Purpose of Machine Learning Model is to predict	Image processing
11	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud	Local, IBM cloud, Flask,

Table-2: Application Characteristics:

S. No	Cha ract	D e	T e
1.	Open-Source Frameworks	F l	Jupiter notebook, pandas, CNN, ANN, etc.
2	Security	No security	N
3	Scalable	Scalable	Deep
4	Availabilit	Available	IBM
5.	Performanc e	Design consideration for the performance of	AI & ML model, Flask.