Project Design Phase-I
Proposed Solution Template

Date	24 September 2022
Team ID	PNT2022TMID44098
Project Name	Project - Intelligent Vehicle Damage Assessment and Cost Estimator for Insurance Companies
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	To build a VGG16 model that can detect the area of damage on a car. The rationale for such a model is that it can be used by insurance companies for faster processing of claims if users can upload pics and the model can assess damage(be it dent scratch from and estimates the cost of damage. This model can also be used by lenders if they are underwriting a car loan, especially for a used car.
2.	Idea / Solution description	To accomplish this, to create Train and Test Folders and then image preprocessing in which Import the imagedatagenerator library and applyimagedatagenerator functionality to Trainset and Testset. The third step is Model Building in which Import the model building Libraries,Adding Flatten layers then Adding Output Layer then Creating Model Object then Configure the Learning Process then Train,Save,Test The Model. Step four is Cloudant DB in which Register & Login to IBM Cloud then Create Service Instance and Credentials then Launch Cloudant DB then Create Database. The last step is Application Building in which Building HTML Pages then Build Python Code finally Run The Application
3.	Novelty / Uniqueness	▪ AI based car detection. ▪ Image processing
4.	Social Impact / Customer Satisfaction	Customer (insurance company) no need to give full amount to the policy holder. They can provide an amount based on the severity of the damage.
5.	Business Model (Revenue Model)	Subscription and advertising model

6.	Scalability of the Solution	It allows the client to avoid giving the total amount of insurance to the policyholder for a small amount of damage.