

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

Date	18 October 2022
Team ID	PNT2022TMID18732
Project Name	Car Resale Value Prediction

Technical Architecture:

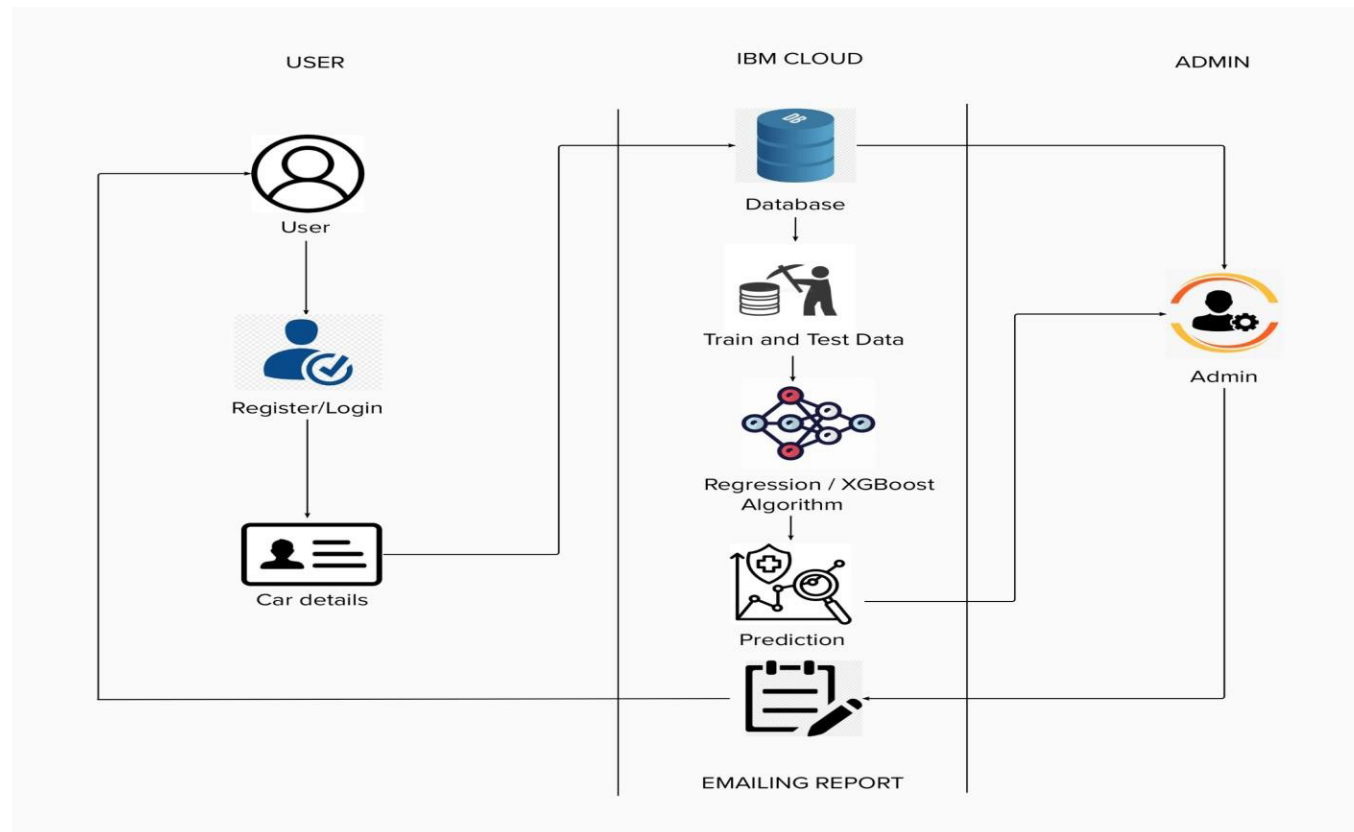


Table-1:Components&Technologies:

S.No	Component	Description	Technology
1.	UserInterface	Theuserinteractswithapplicationusing WebUI.	HTML,CSS,JavaScript,etc.
2.	Database	Thedatasetcontainingcardetailsisusedfortrai ningthemodeltopredicttherate.	PythonlibrarieslikenumPy,pandasetc.
3.	CloudDatabase	ThedatasetisstoredintheIBMcloud	IBMCloud
4.	MachineLearningalgorithms	Themachinelearningalgorithmsareusedto predicttheusedcarsrate.	XGBoostorRegressionalgorithm
5.	Chart	Theuserwillreceivethepredictionchart	SMTP

Table-2:ApplicationCharacteristics:

S.No	Characteristics	Description	Technology
1.	Open-SourceFrameworks	Open-sourceframeworksused	PythonFlask,Python,IBMCloud
2.	SecurityImplementations	Authenticationprocessimplementation	Encryptions.
3.	ScalableArchitecture	Scalabilityofarchitectureconsistsof3tiers	Webserver-HTML,CSS,JavascriptApplicationser ver-PythonFlask Databaseserver-IBMCloud
4.	Availability	Theusercanaccessthroughcloud	IBMCloudhosting
5.	Performance	Multipleuserscanaccessthewebapplication	IBMLoadBalance