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

Date	16 October 2022
Team ID	PNT2022TMID02177
Project Name	Car Resale Value Prediction
Maximum Marks	4 Marks

Technical Architecture:
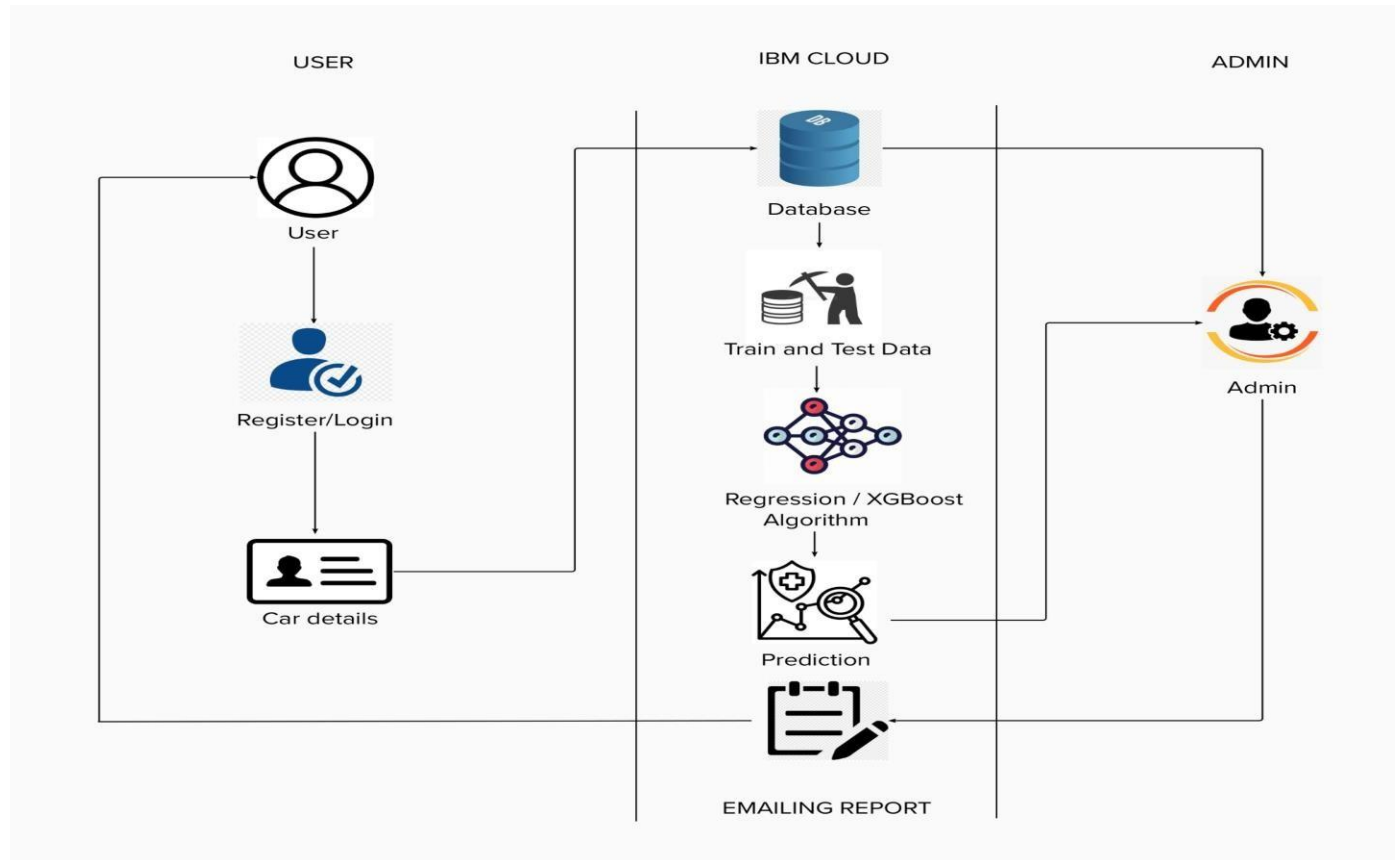
Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Using a Web UI, the user engages with the application	Python flask
2.	Dataset	The dataset containing the price and specification of the cars details is used for training the model	Python libraries like numpy, pandas,etc
3.	Cloud Database	The dataset is stored in the IBM cloud	IBM cloud
4.	Machine Learning Model	The machine learning algorithm are used to predict the used car rates	Regression model

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Open- source framework is used for building web application	Python Flask , Python , IBM Cloud
2.	Security Implementations	Authentication process Implementation	Encryptions
3.	Scalable Architecture	Scalability of architecture consist of 3 tiers like: Web server, Application server, Database server	Web server- HTML,CSS, Java script Application server- Python flask Database server- IBM cloud
4.	Availability	The user can access through web browser	IBM cloud hosting
5.	Performance	Multiple users can access the web application	IBM load balance