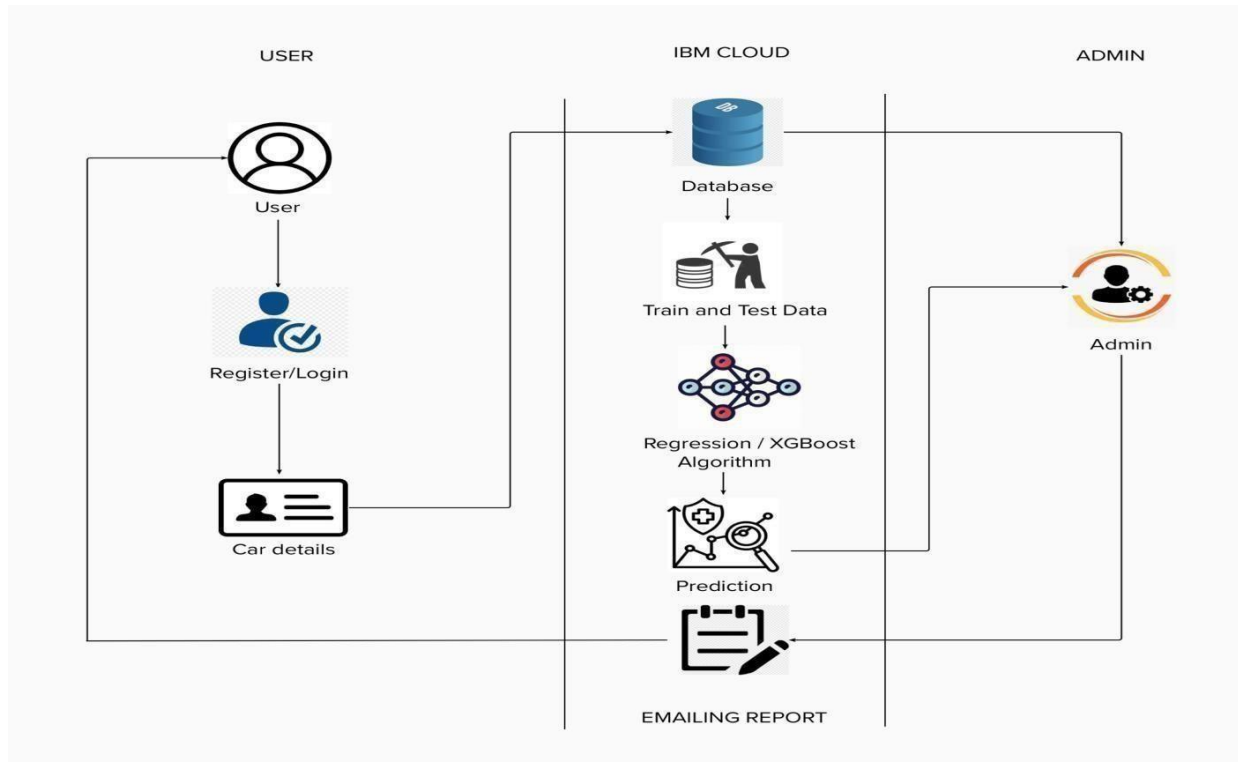


**Project Design Phase-II**  
**Technology Stack (Architecture & Stack)**

Date	5 October 2022
TeamID	PNT2022TMID14520
Project Name	Project- Car Resale Value Prediction
Maximum Marks	4 Marks

**Technical Architecture:**



S.No	Characteristics	Description	Technology
1.	Open-SourceFrameworks	Open-sourceframeworks used	PythonFlask, Python, IBM Cloud
2.	SecurityImplementations	Authenticationprocess implementation	Encryptions.
3.	ScalableArchitecture	Scalabilityof architectureconsists of 3 tiers	Web server-HTML, CSS, Java script Application server-Python Flask Database server-IBM Cloud
4.	Availability	Theuser canaccess through cloud	IBM Cloud hosting

5.	Performance	Multiple users can access the web application	IBM Load Balance
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**Table-1: Components & Technologies:**

S.No	Component	Description	Technology
1.	User Interface	The user interacts with the application using Web UI.	HTML, CSS, JavaScript, ReactJS etc.
2.	Database	The dataset containing car details is used for training the model to predict the rate.	Python libraries like NumPy, Pandas etc.
3.	Cloud Database	The dataset is stored in the IBM cloud	IBM Cloud
4.	Machine Learning algorithms	The machine learning algorithms are used to predict the used cars rate.	XGBoost or Regression algorithm
5.	Chart	The user will receive the prediction chart	SMTP

**Table-2: Application Characteristics:**