

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

Date	03 October 2022
Team ID	PNT2022TMID22035
Project Name	Project - Car Resale value Prediction
Maximum Marks	4 Marks

Technical Architecture:

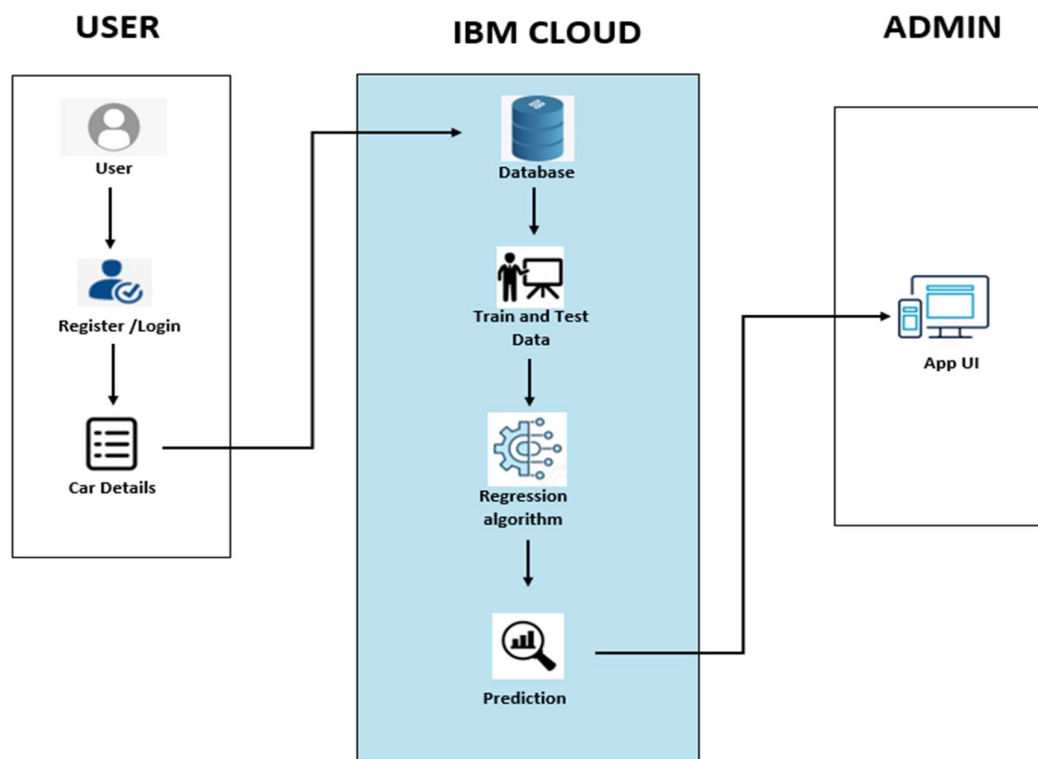


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	The user interacts with application Eg: Web UI.	HTML, CSS, python flask
2.	Application Logic-1	Register and login page	HTML, CSS, Python flask
3.	Application Logic-2	Home page	HTML, CSS
4.	Application Logic-3	Result page	HTML, CSS
5.	Database	Data Type, Configurations etc.	MySQL.
6.	Cloud Database	Database Service on Cloud	IBM Database.
7.	File Storage	File storage requirements	IBM Cloud object Storage.
8.	Machine Learning Model	Purpose of Machine Learning Model	IBM Watson Studio

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Python Flask, Jupyter Notebook and python libraries
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	Through password
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Web server – HTML, CSS Application server – Python flask Database server – IBM Cloud
4.	Availability	Multiple users can access the website at anytime and anywhere.	IBM cloud hosting
5.	Performance	Reduce the overall load time of prediction.	IBM Load Balance