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

Date	15 October 2022
Team ID	PNT2022TMID06676
Project Name	Machine Learning based vehicle performance Analyzer
Maximum Marks	4 Marks

Technical Architecture:

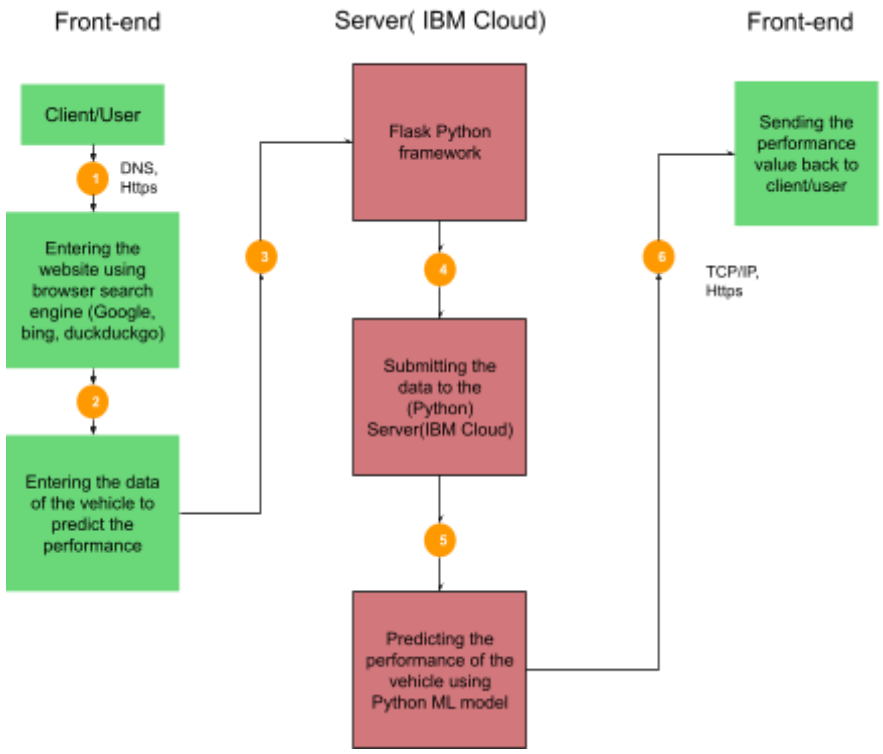

Table-1: Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	User can interact with the webpage to predict the Performace of the vehicle	Flask, HTML, CSS
2.	Application Logic-1	Enetring the data to the website	HTML forms
3.	Server Logic-1	Sending the data to the flask python framework	Flask Framework, IBM Cloud
4.	Server Logic-2	Flask framework get the values and submit them to the python server which is in IBM Cloud to perform ML	Python, Flask, IBM Cloud
5.	Server Logic-3 (Predicting)	Predicting the performance of the vehicle in the ML model	Sklearn, Python
6.	Result	The ML model sends the results back to the client/user	HTML, CSS

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Flask python library, Python, Sklearn library are the open-source frameworks and libraries used in this projects	Flask python library, Python, Sklearn library
2.	Security Implementations	HTTPS is used for highly secured encrypted connection	Https
3.	Scalable Architecture	-	-
4.	Availability	-	-
5.	Performance	-	-