Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	
Team ID	PNT2022TMID34943
Project Name	Project – Car Resale Value Prediction
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Entering details	Enter Registeration number Enter the specifications details
FR-2	Data visualization and Data preprocessing	Performs visualization via matplotlib Performs visualization via seaborn Performs preprocessing via numpy Performs preprocessing via pandas
FR-3	Implementing Machine Learning algorithms	Implementing Regression algorithms
FR-4	Evaluate prediction	Evaluate the dataset details with the model which has already builded

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The System is used for detecting the car price accurately based on the details collected from the user. By Implementing lasso regression, linear regression and ridge regression algorithms to the collected details and predict the price of second hand car
NFR-2	**Security**	This System doesn't share any details of the customer with third persons . Even though the System does not save the details of the customer who check their car resale price.
NFR-3	**Reliability**	The reliability of the system would be really good. Probability of giving inaccurate price is very low. As the system is working based on the machine learning algorithm, it would easily predict and give the correct price.
NFR-4	**Performance**	The performance would be good because it is deployed in cloud environment. The collected details from the user would be processed and executed within a second using the machine learning algorithm.

NFR-5	**Availability**	The availability of the System is based on the cloud infrastructure environment. There will be a high availability of software until the cloud environment facing any issues.
NFR-6	**Scalability**	This System is a Saas application. So, it is highly scalable, allowing business to access and services as they grow.