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

Date	15 October 2022
Team ID	PNT2022TMID53078
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 Registration and Login	Registration through Form Registration through Email Login through Email
FR-2	User should be able to input car details	Car information like date of purchase, price, damages incurred, etc are entered by the user
FR-3	User should be able to view past predictions	User can view the previous predictions the model has made on different cars and categorise according to the brand, type of car, date of purchase, etc.
FR-4	System predicts car resale vale	Taking input features given by user, system should be able to predict car price by forwarding the prediction request to the ML model.
FR-5	Admin should be notified of any errors in the system	Any error that occurs like the model taking a long time to evaluate resale price should be notified to the admin so that the problem might be fixed.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Effective User Interface with descriptions for each feature and proper layout that ensures each user finds it easy to access and interact with the system.
NFR-2	**Security**	Account creation for each user with a mandatory password strength check while creating the account.
NFR-3	**Reliability**	Chance of critical failure should be less than or equal to 2%.
NFR-4	**Performance**	The system must provide a webpage rendering images and texts upon receiving a request within a time of 8 seconds over a standard internet connection.
NFR-5	**Availability**	The website should be available to users 24x7. Any issues or errors will be addressed within the next 24 hours.
NFR-6	**Scalability**	The system must be scalable enough to support 1,00,000 requests at the same time without crashing.