

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

Team ID	PNT2022TMID42137
Project Name	Project – Car Resale Value Prediction
College Name	AVS College Of Technology

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	<ul style="list-style-type: none">• Registration through Form• Registration through Gmail• Registration through Instagram• Registration through Facebook
FR-2	User Confirmation	<ul style="list-style-type: none">• Confirmation via Email• Confirmation via Message
FR-3	User Profile	<ul style="list-style-type: none">• View account details• Change password
FR-4	Car details	<ul style="list-style-type: none">• Adding the new car• Getting car details• View and update details
FR-5	Maintain database	<ul style="list-style-type: none">• Store car details in car database• Store user details in user database
FR-6	Value prediction	<ul style="list-style-type: none">• Predict the value of the resale car using the model and details entered• Display the predicted value
FR-7	Feedback	<ul style="list-style-type: none">• Feedback through form

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	<ul style="list-style-type: none">• User friendly UI• Clear instructions and sample examples will be provided• Easy process flow to predict value
NFR-2	Security	<ul style="list-style-type: none">• User authentication while entering website• No information is shared with third party• User can see only his details
NFR-3	Reliability	<ul style="list-style-type: none">• Data will be stored and replicated so that data loss can be avoided• Rate of occurrence of failure is very less
NFR-4	Performance	<ul style="list-style-type: none">• Quick prediction results• Fast website loading• Efficient ML algorithm to provide accurate result with less time complexity
NFR-5	Availability	<ul style="list-style-type: none">• Application can be accessed from both mobile and desktop• Single page failure does not affect the whole website• Uninterrupted user services
NFR-6	Scalability	<ul style="list-style-type: none">• Able to handle large amount of data and traffic globally without failure• Database can be scaled according to the usage in a cost effective manner