

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

Date	20 October 2022
Team ID	PNT2022TMID35029
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	<ul style="list-style-type: none"><li>• Registration through Form</li><li>• Registration through Gmail</li><li>• Registration through Instagram</li><li>• Registration through Facebook</li></ul>
FR-2	User Confirmation	<ul style="list-style-type: none"><li>• Confirmation via Email</li><li>• Confirmation via Message</li></ul>
FR-3	User Profile	<ul style="list-style-type: none"><li>• View account details</li><li>• Change password</li></ul>
FR-4	Car details	<ul style="list-style-type: none"><li>• Adding the new car</li><li>• Getting car details</li><li>• View and update details</li></ul>
FR-5	Maintain database	<ul style="list-style-type: none"><li>• Store car details in car database</li><li>• Store user details in user database</li></ul>
FR-6	Value prediction	<ul style="list-style-type: none"><li>• Predict the value of the resale car using the model and details entered</li><li>• Display the predicted value</li></ul>
FR-7	Feedback	<ul style="list-style-type: none"><li>• Feedback through form</li></ul>

**Non-functional Requirements:**

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

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