

**PROJECT DESIGN PHASE-II**  
**SOLUTION REQUIREMENTS (FUNCTIONAL & NON-**  
**FUNCTIONAL)**

Date	23October 2022
Team ID	PNT2022TMID25996
Project Name	Intelligent Vehicle Damage Assessment and Cost Estimator for Insurance Companies
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 LinkedIn</li></ul>
FR-2	User Confirmation	<ul style="list-style-type: none"><li>• Confirmation via Email</li><li>• Confirmation via OTP</li></ul>
FR-3	User Interface	<ul style="list-style-type: none"><li>• User friendly and simple website</li></ul>

FR-4	Collect the datasets	<ul style="list-style-type: none"> <li>Collect the data from the user side and their vehicle side information.</li> <li>Collect the data from about Insurance companies plans.</li> </ul>
FR-5	Final Results	<ul style="list-style-type: none"> <li>Model should be trained with high accuracy.</li> <li>Results obtained from the model should be displayed to The user with easy interpretability.</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>Intelligent model used to assessment the damage in the vehicle and estimate the cost to be provided by the insurance company.</li> </ul>
NFR-2	<b>Security</b>	<ul style="list-style-type: none"> <li>The credibility of the user and the confidentiality of user details about their vehicle must be maintained.</li> </ul>

NFR-3	<b>Reliability</b>	<ul style="list-style-type: none"> <li>• This scheme can achieve good accuracy in damage estimation and cost estimation, thus providing accurate and unbiased insurance coverage to the user.</li> </ul>
NFR-4	<b>Performance</b>	<ul style="list-style-type: none"> <li>• Real-time images are to be captured and uploaded to the website, where the proposed model performs damage assessment and gives the insurance cost accordingly.</li> </ul>
NFR-5	<b>Availability</b>	<ul style="list-style-type: none"> <li>• The website should be compatible with web browsers on both mobile phones and computers.</li> </ul>
NFR-6	<b>Scalability</b>	<ul style="list-style-type: none"> <li>• The proposed solution will be scalable in the future due to efficient and rapid analysis and accurate cost estimation</li> </ul>