

## Project Design Phase-II

### Solution Requirements (Functional & Non-functional)

Team ID	PNT2022TMID25776
Project Name	Project - <b>Intelligent Vehicle Damage Assessment and Cost Estimator for Insurance Companies</b>
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 Gmail</li> <li>Registration through phone</li> </ul>
FR-2	User Confirmation	<ul style="list-style-type: none"> <li>Confirmation via E-mail</li> <li>Confirmation via OTP</li> </ul>
FR-3	User Interface	<ul style="list-style-type: none"> <li>User friendly UI</li> <li>Register and create User Profile (which includes, Name, age, D.O.B, Driving license, Car number, other supporting documents, etc.)</li> <li>Login page</li> <li>Claim processing page</li> </ul>
FR-4	Detecting Damage	<ul style="list-style-type: none"> <li>User to detect the damaged parts of the vehicle</li> <li>Take photos of the damaged parts</li> </ul>
FR-5	Database	<ul style="list-style-type: none"> <li>User to upload the images in the claim processing page</li> <li>These will be stored in cloud</li> <li>A DBMS serves as an interface between end-use and a database allowing user to create, read, update, and delete data in the database</li> </ul>
FR-6	Pre-processing	<ul style="list-style-type: none"> <li>Uploaded images will be processed and the image data would be improved</li> </ul>
FR-7	Claim	<ul style="list-style-type: none"> <li>The process will instantly generate an accurate estimation of the cost of the damaged parts based on the image detection analysis in a readable and understandable format.</li> <li>It uses machine learning process and states the defect percentage and estimates the cost.</li> </ul>

**Non-functional Requirements:**

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

<b>FR No.</b>	<b>Non-Functional Requirement</b>	<b>Description</b>
NFR-1	<b>Usability</b>	<ul style="list-style-type: none"><li>• Easy to handle</li><li>• Easy claiming process</li><li>• Easy to upload images and processing</li><li>• Easy to get the insurance money</li></ul>
NFR-2	<b>Security</b>	<ul style="list-style-type: none"><li>• Details of the customer are secured</li><li>• Information about the user is kept confidential</li><li>• Secured link and processing of insurance</li></ul>
NFR-3	<b>Reliability</b>	<ul style="list-style-type: none"><li>• Easy to use and apply</li><li>• Users can trust the app</li><li>• Estimates fair rate</li><li>• Transparent calculation of the cost</li><li>• Gives high accuracy</li></ul>
NFR-4	<b>Performance</b>	<ul style="list-style-type: none"><li>• Faster in processing of the claim</li><li>• Easy acquisition of documents</li><li>• User friendly process to make them comfortable</li><li>• Meets customer's satisfaction</li></ul>
NFR-5	<b>Availability</b>	<ul style="list-style-type: none"><li>• Freely available</li><li>• Users can know the process</li><li>• Queries can be answered</li><li>• Users can apply claim at their comfort</li></ul>
NFR-6	<b>Scalability</b>	<ul style="list-style-type: none"><li>• More number of users can apply for claim at the same time</li><li>• Once applied, the user need not worry about the process</li><li>• Fastens the process of claim</li><li>• Fair and quick settlement of insurance money</li><li>• More companies will rely on this to reduce the time spending in checking and calculating the costs.</li></ul>