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

Date	15 October 2022
Team ID	PNT2022TMID35437
Project Name	Project - **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	• Registration through Gmail • Registration through phone
FR-2	User Confirmation	• Confirmation via E-mail • Confirmation via OTP
FR-3	User Interface	• User friendly UI • Register and create User Profile (which includes, Name, age, D.O.B, Driving license, Car number, other supporting documents, etc.) • Login page • Claim processing page
FR-4	Detecting Damage	• User to detect the damaged parts of the vehicle • Take photos of the damaged parts
FR-5	Database	• User to upload the images in the claim processing page • These will be stored in cloud • A DBMS serves as an interface between end-use and a database allowing user to create, read, update, and delete data in the database
FR-6	Pre-processing	• Uploaded images will be processed and the image data would be improved
FR-7	Claim	• 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. • It uses machine learning process and states the defect percentage and estimates the cost.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	• Easy to handle • Easy claiming process • Easy to upload images and processing • Easy to get the insurance money
NFR-2	**Security**	• Details of the customer are secured • Information about the user is kept confidential • Secured link and processing of insurance
NFR-3	**Reliability**	• Easy to use and apply • Users can trust the app • Estimates fair rate • Transparent calculation of the cost • Gives high accuracy
NFR-4	**Performance**	• Faster in processing of the claim • Easy acquisition of documents • User friendly process to make them comfortable • Meets customer's satisfaction
NFR-5	**Availability**	• Freely available • Users can know the process • Queries can be answered • Users can apply claim at their comfort
NFR-6	**Scalability**	• More number of users can apply for claim at the same time • Once applied, the user need not worry about the process • Fastens the process of claim • Fair and quick settlement of insurance money • More companies will rely on this to reduce the time spending in checking and calculating the costs.