

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

|               |  |
|---------------|--|
| Date          | 23October 2022   |
| Team ID       | PNT2022TMID18748   |
| 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>  |