PROJECT DESIGN PHASE-II

**SOLUTION REQUIREMENTS**

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| DATE | 23 November 2022 |
| TEAM ID | PNT2022TMID17180 |
| PROJECT NAME | Project – Intelligent Vehicle Damage Assessment and Cost Estimator for  Insurance Companies |
| MAXIMUM MARKS | 4 marks |

FUNCTIONAL REQUIREMENTS

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| **FR NO** | **FUNCTIONAL REQUIREMENTS ( EPIC)** | **SUB REQUIREMENTS (SUBTASK/STORY)** |
| **FR 1** | User Registration | * Registration through link * Registration through form |
| **FR 2** | User Confirmation | * confirmation through message * confirmation through mail |
| **FR 3** | User Interface | * user login form * user Admin form |
| **FR 4** | Detecting Damage | * Detecting the location where the damages occurs |
| **FR 5** | Database | * Stored in cloud for seamless   connectivity   * to store, retrieve, and run queries on Data * A DBMS serves as an interface   Between an end-user and a database, |

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|  |  | Allowing users to create, read, update, And delete data in the database. |
| **FR 6** | Cloud | * cloud collects the data from the input   and store the data to provide output   * Cloud computing allows mobile access to corporate data via smartphones and   devices, which, considering over |
| **FR 7** | VGG16 model | * It is used for object detection and   classification algorithm which is able to  classify 1000 images of 1000 different categories with 92.7% accuracy.   * It is one of the popular algorithms for image classification and is easy to use   with transfer learning. |
| **FR 8** | DL Algorithm | * It uses artificial neural networks to perform sophisticated computations on   large amounts of data. |
| **FR 9** | Preprocessing | * an improvement of the image data   that suppresses unwilling distortions or  enhances some image features important for further processing |

NON FUNCTIONAL REQUIREMENTS:

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| **NFR NO** | **NON FUNCTIONAL REQUIREMENTS** | **DESCRIPTION** |
| **NFR 1** | Usability | * About this model, they easily upload the image via online form and easy to process the claim * make it settlement as soon as   possible |
| **NFR 2** | Security | * they never share the customer details to others * They make the information   confidential about the customer.   * The customer should not Worry about   their safety through the link |

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| **NFR 3** | Reliability | * Easy to use * Trustworthy * High accuracy |
| **NFR 4** | Performance | * The customer know about the process which make them to feel relax about   delay claim   * They provide the customer   satisfaction through their performance |
| **NFR 5** | Availability | * know the current process * know about queries if they need * Apply the claim as their comfort   platform |
| **NFR 6** | Scalability | * company know about the customer status * customer should not worry about claim * make the quick settlement |