**PROJECT DESIGN PHASE-II**

|  |  |
| --- | --- |
| DATE | 15 October 2022 |
| TEAMID | PNT2022TMID47699 |
| PROJECT NAME | Project – Intelligent Vehicle Damage Assessment and Cost Estimator for Insurance Companies |
| MAXIMUM MARKS | 4 marks |

**SOLUTION REQUIREMENTS**

**FUNCTIONAL REQUIREMENTS**

|  |  |  |
| --- | --- | --- |
| **FR NO** | **FUNCTIONAL REQUIREMENTS ( EPIC)** | **SUB REQUIREMENTS (SUBTASK/STORY)** |
| **FR 1** | UserRegistration | **✓** Registrationthroughlink  ✓ 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** | DetectingDamage | ✓ 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, 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** | VGG16model | ✓ 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** | DLAlgorithm | ✓ 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:**

|  |  |  |
| --- | --- | --- |
| **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 |
| **NFR 3** | Reliability | **✓** Easytouse  ✓ 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 |