

## **PROJECT DESIGN PHASE-II**

### **SOLUTION REQUIREMENTS**

DATE	30 October 2022
TEAM ID	PNT2022TMID14192
PROJECT NAME	Project – Intelligent Vehicle Damage Assessment and Cost Estimator for Insurance Companies
MAXIMUM MARKS	4 marks

#### **FUNCTIONAL REQUIREMENTS**

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,

		Allowing users to create, read, update, And delete data in the database.
<b>FR 6</b>	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
<b>FR 7</b>	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.
<b>FR 8</b>	DL Algorithm	✓ It uses artificial neural networks to perform sophisticated computations on large amounts of data.
<b>FR 9</b>	Preprocessing	✓ an improvement of the image data that suppresses unwilling distortions or enhances some image features important for further processing

#### NON FUNCTIONAL REQUIREMENTS:

<b>NFR NO</b>	<b>NON FUNCTIONAL REQUIREMENTS</b>	<b>DESCRIPTION</b>
<b>NFR 1</b>	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
<b>NFR 2</b>	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

<b>NFR 3</b>	Reliability	<ul style="list-style-type: none"> <li>✓ Easy to use</li> <li>✓ Trustworthy</li> <li>✓ High accuracy</li> </ul>
<b>NFR 4</b>	Performance	<ul style="list-style-type: none"> <li>✓ The customer know about the process which make them to feel relax about delay claim</li> <li>✓ They provide the customer satisfaction through their performance</li> </ul>
<b>NFR 5</b>	Availability	<ul style="list-style-type: none"> <li>✓ know the current process</li> <li>✓ know about queries if they need</li> <li>✓ Apply the claim as their comfort platform</li> </ul>
<b>NFR 6</b>	Scalability	<ul style="list-style-type: none"> <li>✓ company know about the customer status</li> <li>✓ customer should not worry about claim</li> <li>✓ make the quick settlement</li> </ul>