PROJECT DESIGN PHASE-II

TECHNOLOGY STACK (ARCHITECTURE & STACK)

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| DATE | 30 October 2022 |
| TEAM ID | PNT2022TMID44667 |
| PROJECT NAME | Project – Intelligent Vehicle Damage Assessment and Cost Estimator for  Insurance Companies |
| MAXIMUM MARKS | 4 marks |

**TECHNICAL ARCHITECTURE** :

USER CLOUD EXTERNAL



User

HTML Python

Web Application

TABLE 1 : Components & Technologies

S.NO COMPONENTS

DESCRIPTION

TECHNOLOGY

1. User Interface

User interact with Web application

HTML

1. Application logic

1

Build HTML page for login, Registration, Prediction ,Logout

Python ,WSGI application.

1. Application logicVGG16 is object detection Python

2

1. Image Data Generator

and classification algorithm which is able to classify 1000 images of 1000 different categories with 92.7% accuracy.

Data generatorhas been used to constructed for train and test

Python

1. Cloud DatabaseIBM Cloud Identity & IBM Bluemix cloud

Access Management enables you to securely authenticate users and control

access to all consistently.

platform.

1. File storage

File storage requirements Local file system or

Other storage service

1. External API 1

Registration through

email.

HTML page

1. External API 2

Confirmation via email

Email

1. Infrastructure Database has been InstalledIBM Bluemix cloud

( Server & cloud)to run a service and platform.

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| --- | --- | --- | --- |
|  |  | deployed in IBM cloud instance |  |

TABLE 2: Application characteristics

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| --- | --- | --- | --- |
| S.NO | CHARACTERIS | TDICES CRIPTION | TECHNOLOGY |
| 1 | Security  implentation | Careful examine about choosing an image for detecting or uploading images of your damaged portion of vehicle | Encryption |
| 2 | Scalable  Architecture | This method is ensured  accurate information ab The claim predicted amo | Deep learning  out unt |
| 3 | Availability | Help to get estimated  amount at a time which help customer to claim insurance in earlier stag | Image Preprocessin  e. |
| 4 | Performance | The trained model can predict an accurate resu and took less time when compare to reality | IBM cloud  lt |