# Project Design Phase-II
## Technology Stack (Architecture & Stack)

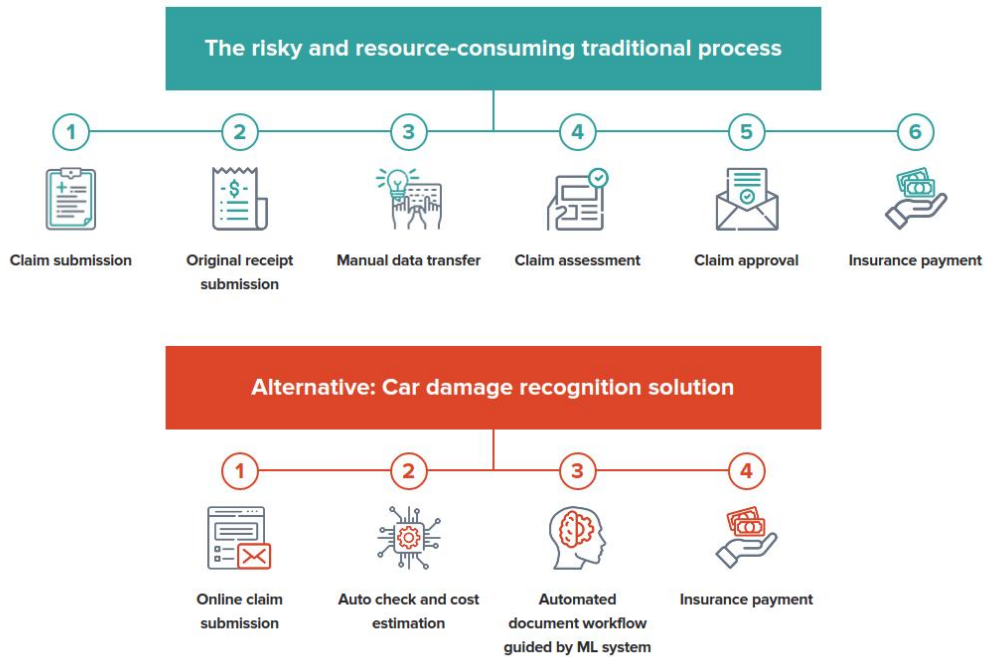| Date | 18 October 2022 |
|---|---|
| Team ID | PNT2022TMID33324 |
| Project Name | Project – Intelligent Vehicle damage detection and Cost Estimator |
| Maximum Marks | 4 Marks |

**Technical Architecture:**



**Table-1 : Components & Technologies:**

| S.No | Component | Description | Technology |
|---|---|---|---|
| 1. | User Interface | How user interacts with application e.g. Web UI, Mobile App, Chatbot etc. | HTML, CSS, JavaScript / Angular Js / React Js etc. |
| 1. | Application Logic-1 | Logic for a process in the application | Python |
| 1. | Application Logic-2 | Logic for a process in the application | CNN, image processing |
| 1. | Application Logic-3 | Logic for a process in the application | Artificial Intelligence |
| 1. | Database | Data Type, Configurations etc. | MySQL, NoSQL, etc. |

| 1. | Cloud Database | Database Service on Cloud | IBM DB2, IBM Cloudant etc. |
|---|---|---|---|
| 1. | File Storage | File storage requirements | IBM Block Storage or Other Storage Service or Local Filesystem |
| 1. | External API-1 | Purpose of External API used in the application | Vehicle API, etc. |
| 1. | External API-2 | Purpose of External API used in the application | Aadhar API, etc. |
| 1. | Machine Learning Model | Purpose of Machine Learning Model | Object Recognition Model, etc. |
| 1. | Infrastructure (Server / Cloud) | Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration : | Local, Cloud Foundry, Kubernetes, etc. |

**Table-2: Application Characteristics:**

| S.No | Characteristics | Description | Technology |
|---|---|---|---|
| 1. | Open-Source Frameworks | List the open-source frameworks used | Technology of Opensource framework |
| 1. | Security Implementations | List all the security / access controls implemented, use of firewalls etc. | e.g. IAM Controls, OWASP etc. |
| 1. | Scalable Architecture | Justify the scalability of architecture (3 – tier, Micro-services) | Technology used |
| 1. | Availability | Justify the availability of application (e.g. use of load balancers, distributed servers etc.) | Technology used |
| 1. | Performance | Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc. | Technology used |

**References:**

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https://medium.com/the-internal-startup/how-to-draw-useful-technical-architecture-diagrams-2d20c9fda90d