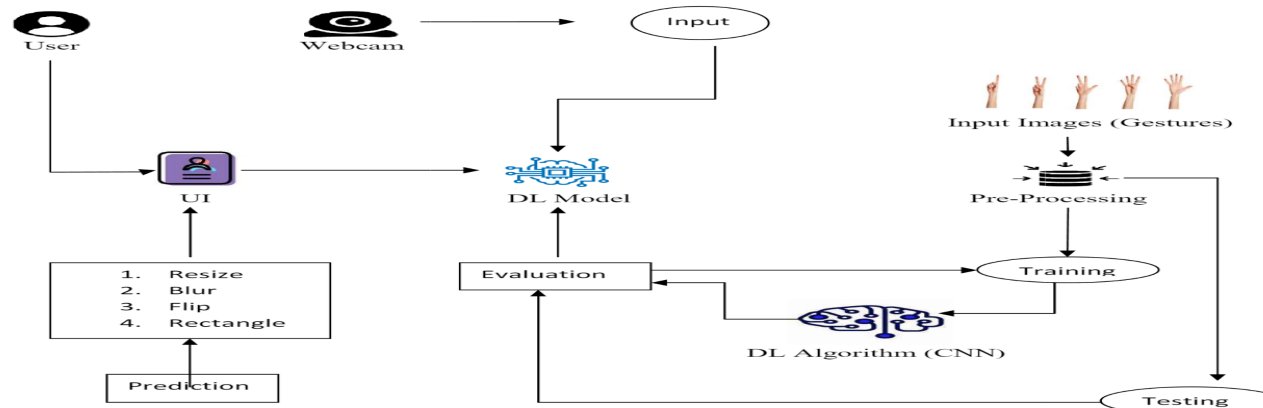


**Project Design Phase-II**  
**Technology Stack (Architecture & Stack)**

|               |  |
|---------------|--|
| Date          | 03 October 2022  |
| Team ID       | PNT2022TMID28513   |
| Project Name  | Project - A Gesture- based tool for sterile browsing of Radiology Images |
| Maximum Marks | 4 Marks  |

**A GESTURE BASED TOOL FOR STERILE BROWSING  
OF RADIOLOGY IMAGES**

**Technical Architecture**



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

| S.No | Component                       | Description   | Technology                             |
|------|---------------------------------|---|--|
| 1.   | User Interface                  | How user interacts with application e.g. Web UI..   | HTML, CSS, JavaScript.                 |
| 2.   | Application Logic-1             | Upload image in an application  | Python                                 |
| 3.   | Cloud Database                  | Database Service on Cloud   | IBM DB2, IBM Cloudant etc.             |
| 4.   | Machine Learning Model          | Purpose of Machine Learning Model   | Object Recognition Model, etc.         |
| 5.   | Infrastructure (Server / Cloud) | Application Deployment on Local System / Cloud<br>Local Server Configuration:<br>Cloud Server Configuration : | Local, Cloud Foundry, Kubernetes, etc. |
| 6.   | Convolutional Neural Network    | Initialize the model  | CNN Layer                              |

**Table-2: Application Characteristics:**

| S.No | Characteristics        | Description  | Technology                          |
|------|------------------------|--|-------------------------------------|
| 1.   | Open-Source Frameworks | List the open-source frameworks used   | Technology of Open source framework |
| 2.   | Scalable Architecture  | Justify the scalability of architecture (3 – tier, Micro-services)                             | Technology used                     |
| 3.   | Availability           | Justify the availability of application (e.g. use of load balancers, distributed servers etc.) | Technology used                     |
| 4.   | Performance            | The system responds to the user in a second and the hardware and software works well           | Technology used                     |

