

LIST OF REQUIREMENTS

Covisym has following features/Requirements:

- **Image Pre-processing:** The chest X-Ray images may undergo pre-processing techniques such as resizing, normalization etc... to improve the model's performance.
- **Model:** The ResNet-18 deep learning architecture is to be implemented for the task of COVID-19 detection.
- **Training:** The model is to be trained on the pre-processed X-ray images and evaluated for its accuracy, precision, recall, and F1 score.
- **User interface:** A user-friendly interface will be developed for easy deployment and use of the model by healthcare professionals.
- **Security and privacy:** The project will ensure the privacy and security of the medical data used for training and inference.
- **Accessibility and Availability to medical resources:** To provide remote services, for mild to moderately ill patients, in order to avoid crowding healthcare facilities.
- **Affordability:** To provide a convenient detection process at low cost.