# Software Requirement Specification (SRS)

## Requirement Analysis

The software requirements specification document lists sufficient and necessary requirements for the project development. To derive the requirements, the developer needs to have clear and thorough understanding of the products under development. This is achieved through detailed and continuous communications with the project team and customer throughout the software development process. A software requirements specification (SRS) is a description of a software system to be developed. It lays out functional and non-functional requirements and may include a set of use cases that describe user interactions that the software must provide. The software requirements specification document enlists enough and necessary requirements that are required for the project development.

* Expected Requirements
* Functional Requirements
* Non-functional Requirements
* Software Requirements
* Technical Requirement

**Expected Requirement:**

The expected requirements of the project are explained below

* User requires from Face Mask Detection System well defined module and secure usability.
* User expect 100% efficiency in detecting the masked faces.
* User requires urgent reaction on unmasked faces.

**Software Requirement:**

The software requirement for the development of the project are these:

* Tensorflow for coding
* Flutter for Modules.
* Adobe Photoshop for designing.

**Technical Requirement:**

In this project our technical requirement are that we used Machine learning for training the dataset and model and Flutter for designing the interface for the trained model. HCI for the interfaces where user has to select the interface.

## Functional Requirements

### ADMIN:

* **Admin Login:**

Admin should be able to login to the admin panel so than admin can add and manage information. Admin should require user name and password for login.

* **Add/Delete/Update patient information:**

Admin should be able to add user data and can modify information. Admin can also delete,

add and update data from dataset.

* **Send:**

Admin should be able to send information of how much people are not wearing mask from System. Admin should be able to send mail to those users who are not wearing facemasks.

### User:

* User should be able to receive mail.
* User should be able to response on mail.

## Non-Functional Requirements

* The Face Mask Detection System must be reliable with next to no faults or bugs
* The dataset must be scalable to adopt to a growing number of user.
* The System must be secure as sensitive data is being used.
* Admin can easily interact with System.
* System Interface should be easy and attractive to use.
* Face mask detection system give good performance to the management work to maintain check and balance of the people wearing mask or not.
* Provide accurate responses to input.

## Use Cases Diagram(s)

Face Mask Detection System use case diagrams based on the following basic actors:

Admin

User

**For Admin:**

