**Project Name:** Realtime Face Mask Detection.

**Feasibility & Requirements:**

**Project Summary:**

In today’s time living through a pandemic is not a choice but a necessity, and the best way to prevent this infection from spreading is to wear a face mask. Businesses have incurred heavy losses due to this and have no real intention to check if a person is wearing a mask or not.

Building a Realtime Face mask detector will release human effort and be a great way to ensure people follow protocols properly.

**Technical Feasibility:**

We need to detect face masks on a person’s face with higher accuracy, making our system easy to use anywhere.

**Market Feasibility:**

Our application should run on minimum system requirements, and no heavy specification is required from a system to produce results.

**Modules:**

For this project, we will be working with the following technologies:

* Python
* OpenCv
* Pytorch
* Keras
* TensorFlow

Our scope and use of these modules and technologies may vary depending on the requirements.

**SDLC:**

We will be following the following lifecycle:

1. Requirement Gathering.
2. Analysis.
3. Product Designing.
4. Product Development.
5. Product Testing.
6. Maintenance.

**Team Member Responsibilities:**

* Dataset Gathering. (Clannon & Ghous)
* Data Preprocessing. (Clannon & Ghous)
* Model Developing. (Darshak & Harsh)
* Model Training. (Darshak & Harsh)
* Report writing. (Clannon & Ghous)

These roles are defined at the initial stage of the project, and they may be subject to change according to the project requirement and feasibility.

# References

G K Jakir Hussain, R. P. (2022). The Face Mask Detection Technology for Image Analysis in. *Journal of Physics: Conference Series*.

Kukhnavets, P. (2020, August 07). Retrieved from Hygger: https://hygger.io/blog/choosing-sdlc-methodology-for-projects/