Project Initialization and Planning Phase

Date	5th July 2024
Team ID	SWTID1720195938
Project Name	**CovidVision: Advanced COVID-19 Detection from Lung X-Rays with Deep Learning**
Maximum Marks	3 Marks

Define Problem Statements:

The current methods for diagnosing Covid-19 often involve lengthy, complex processes that can delay treatment and containment efforts. These delays can exacerbate the spread of the virus, burden healthcare systems, and impact patient outcomes. Specifically, traditional diagnostic methods like PCR tests, while accurate, are time-consuming and require specialized laboratory settings, which are not always accessible, especially in resource-limited areas. To address these challenges, the project "Covid-19 Detection from Lung X-rays" leverages deep learning algorithms to analyze lung X-ray images for signs of Covid-19 infection. By utilizing vast datasets and advanced image recognition technology, this approach aims to provide a faster, more accessible, and accurate diagnosis. This will enable early detection and prompt isolation of infected individuals, helping to contain the virus more effectively. The project's goal is to improve diagnostic efficiency and accuracy, thereby enhancing patient care and supporting public health efforts to manage the pandemic.

Problem Statement (PS)	X-Ray Scan	Result	Scan	Result	Aftermath
PS-1	Patient is taking x-ray scan of lungs	Patient has the x-ray	Checks if the patient has covid-19 or not	The output is either positive or negative	Depending on situation the patient should act appropriately