

## Project Initialization and Planning Phase

Date	4 <sup>th</sup> July 2024
Team ID	SWTID1720097611
Project Name	Covid Vision: Advanced COVID-19 Detection From Lung X-Rays With Deep Learning
Maximum Marks	3 Marks

### Define Problem Statements (Customer Problem Statement Template):

The current Covid-19 detection and monitoring processes challenge healthcare providers and public health officials, impacting their ability to manage and contain the virus effectively. Applicants, particularly those in overwhelmed hospitals, rural clinics, and public health monitoring roles, encounter hurdles such as a slow diagnostic process, limited access to expert radiologists, and fragmented data collection methods. These challenges lead to a less-than-optimal response to the pandemic, potentially affecting trust and satisfaction. To enhance our services and improve customer perceptions, we aim to address these pain points. By understanding customers' specific frustrations during the Covid-19 detection and monitoring journey and implementing solutions, we can create an efficient, user-friendly experience that aligns with our customers' expectations and fosters a positive relationship with our brand

Customer Problem Statement Template				
I am	I'm trying to	But	Because	Which makes me feel
A hospital administrator overwhelmed by Covid-19 cases.	Expedite the diagnosis process to manage patient	The current diagnostic process is slow and labor-	It requires manual analysis of X-rays by radiologists who are already overburdened	Concerned about the efficiency of our response to the pandemic.
A healthcare worker in a rural clinic with limited access to expert	Screen patients for Covid-19 effectively.	I lack the expertise and tools to analyze lung X-rays accurately.	Our clinic does not have the resources or access to radiology experts	Anxious about missing early Covid-19 cases and the potential spread of the virus.
A public health official monitoring Covid-19 trends across regions.	Identify hotspots and allocate resources strategically.	I need comprehensive and timely data on Covid-19 cases.	Current data collection methods are fragmented and slow.	Frustrated by the delay in response and the potential for uncontrolled outbreaks.

<b>Problem Statement (PS)</b>	<b>I am (Customer)</b>	<b>I'm trying to</b>	<b>But</b>	<b>Because</b>	<b>Which makes me feel</b>
PS-1	A hospital administrator overwhelmed by Covid-19 cases.	Expedite the diagnosis process to manage patient influx effectively.	The current diagnostic process is slow and labor-intensive.	It requires manual analysis of X-rays by radiologists who are already overburdened	Concerned about the efficiency of our response to the pandemic.
PS-2	A healthcare worker in a rural clinic with limited access to expert radiologists.	Screen patients for Covid-19 effectively.	I lack the expertise and tools to analyze lung X-rays accurately.	Our clinic does not have the resources or access to radiology experts	Anxious about missing early Covid-19 cases and the potential spread of the virus.
PS-3	A public health official monitoring Covid-19 trends across regions.	Identify hotspots and allocate resources strategically.	I need comprehensive and timely data on Covid-19 cases.	Current data collection methods are fragmented and slow.	Frustrated by the delay in response and the potential for uncontrolled outbreaks.