

Project Initialization and Planning Phase

Date	15 March 2024
Team ID	SWTID1720440447
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):

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	A radiologist in a community hospital.	Diagnose COVID-19 from lung X-rays swiftly and accurately.	The current diagnostic tools often produce inconsistent results, with frequent false positives and negatives.	These tools lack sophisticated analytical features and cannot always distinguish between COVID-19 and other lung conditions.	Anxious and dissatisfied with the diagnostic process, leading to potential delays in treatment and an increased burden of re-assessments.
PS-2	A hospital administrator tasked with streamlining clinical operations.	Implement a reliable COVID-19 diagnostic tool that seamlessly fits into our existing workflow and is user-friendly for our medical staff.	Many advanced diagnostic tools are complex, require extensive training, and are difficult to integrate into our current systems.	These tools often come with complicated interfaces and high computational demands.	Stressed about the practicality and cost-effectiveness of these tools, and concerned about the potential disruption to our workflow.

PS-3	A public health official focused on improving healthcare quality and access.	Ensure that COVID-19 diagnostic tools are effective for all populations and healthcare settings.	Existing tools frequently do not perform well across diverse groups, leading to disparities in healthcare outcomes.	These tools are often developed with non-diverse data and are not tailored to varied demographic and clinical scenarios.	Worried about the equity and inclusiveness of healthcare solutions, and driven to find technologies that deliver accurate results for all communities.