

Ideation Phase

Define the Problem Statements

Date	12 February 2026
Team ID	LTVIP2026TMIDS88398
Project Name	Deep Learning Fundus Image Analysis for Early Detection of Diabetic Retinopathy
Maximum Marks	2 marks

Problem statement(PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
Ps-1	I am a diabetic patient who needs regular eye screening to prevent vision loss.	Get my eyes checked regularly to detect Diabetic Retinopathy at an early stage.	Manual retinal screening requires visiting a specialist, which is time-consuming and expensive.	There are limited ophthalmologists available, especially in rural or underdeveloped areas, and early symptoms are difficult to detect without expert examination.	Worried and anxious about my vision health and the possibility of delayed diagnosis leading to permanent blindness.
Ps-2	I am an ophthalmologist or healthcare provider responsible for screening diabetic patients.	Efficiently analyze large volumes of fundus retinal images to detect and classify different stages of Diabetic Retinopathy	Manual examination of each image is time-consuming and prone to human error, especially when early-stage abnormalities are subtle.	High patient load and limited resources make it difficult to provide timely and accurate diagnosis for every patient.	Overburdened and concerned about missing early-stage cases that could have been treated if detected sooner.