Ideation Phase Define the Problem Statements

Date	19 September 2022		
Team ID	PNT2022TMID27170		
Project Name	Deep Learning Fundus Image Analysis		
	for Early Detection of Diabetic		
	Retinopathy		
Maximum Marks	2 Marks		

Customer Problem Statement Template:

Diabetics is a globally prevalent disease that can cause visible microvascular complications such as diabetic retinopathy and macular edema(swelling in the part retina) in the human eye retina, the images of which are today used for manual disease screening and diagnosis. This labor-intensive task could greatly benefit from automatic detection using deep learning technique. Here we present a deep learning system that identifies referable diabetic retinopathy comparably or better than presented in the previous studies, although we use only a small fraction of images (<1/4) in training but are aided with higher image resolutions. We also provide novel results for five different screening and clinical grading systems for diabetic retinopathy and macular edema classification, including state-of-the-art results for accurately classifying images according to clinical five-grade diabetic retinopathy and for the first time for the four-grade diabetic macular edema scales. These results suggest, that a deep learning system could increase the cost-effectiveness of screening and diagnosis.

l am	Describe customer with 3-4 key characteristics - who are they?	Describe the customer and their attributes here
I'm trying to	List their outcome or "Job" the care about - what are they trying to achieve?	List the thing they are trying to achieve here
but	Describe what problems or barriers stand in the way – what bothers them most?	Describe the problems or barriers that get in the way here
because	Enter the "root cause" of why the problem or barrier exists – what needs to be solved?	Describe the reason the problems or barriers exist
which makes me feel	Describe the emotions from the customer's point of view – how does it impact them emotionally?	Describe the emotions the result from experiencing the problems or barriers

Reference: https://miro.com/templates/customer-problem-statement/

Example:

Problem	l am	I'm trying to	But	Because	Which makes
Stateme	(Custome				me feel
nt (PS)	r)				
PS-1	Mild	Find the area	the picture	because the	cannot depict
	NPDR	of balloon-	visuals	microaneur	clearly
		like swelling	cannot be	ysms may	
		in the retinas	clear	leaks fluid	
				into retina	
PS-2	Moderate	Blood vessels	these may	does not	findout the
	NPDR	that nourish	lose their	predict	stage
		the retina	ability to		
		may swell	transport		
			blood		
PS-3	Severe	customer	picture	some error	cannot be
	NPDR	login and	may not	occured	predicted
		then upload	be upload		
		picture			
PS-3	Severe	customer	cannot be	picture	upload correct
	NPDR	login and	predicted		picture format
		then upload			
		picture			
PS-4	PDR	customer	cannot	the swelled	clear the
		login	depicted	region is	picture properly
				fluid in	
				picture	
PS-5	login	login by user	the	this cannot	enetr correct
	issue	name	username	match with	password
			or	database	
			password		
			wrong		