Project Design Phase Problem – Solution Fit Template

Date	26 June 2025
Team ID	LTVIP2025TMID45471
Project Name	Hematovision:Advanced Blood Cell Classification Using Transfer Learning
Maximum Marks	2 Marks

Problem – Solution Fit Template:

The Problem-Solution Fit simply means that you have found a problem with your customer and that the solution you have realized for it actually solves the customer's problem. It helps entrepreneurs, marketers and corporate innovators identify behavioral patterns and recognize what would work and why

_							
Ρ		r	n	^	c	Δ	•
	u		u	u	э	c	

Solve complex problems in a way that fits the state of your customers.
Succeed faster and increase your solution adoption by tapping into existing mediums and channels of behavior.
Sharpen your communication and marketing strategy with the right triggers and messaging
Increase touch-points with your company by finding the right problem-behavior fit and building trust by solving frequent annoyances, or urgent or costly problems.
Understand the existing situation in order to improve it for your target group.

Template:

Problem-Solution fit canvas 2.0

Define CS, fit	1. CUSTOMER SEGMENT(5) a).Diagnostic labs (urban & rural) b).Hospitals and healthcare providers c).Pathologists and lab technicians d).Medical AI companies	6. CUSTOMER CONSTRAINTS a).Limited computing resources b).Lack of AI expertise in rural labs c).Budget constraints for small clinics d).No consistent internet in remote areas	5. AVAILABLE SOLUTIONS Manual microscope-based diagnosis ➤ Pros: Low cost Cons: Time-consuming, needs expert knowledge Rule-based image classifiers ➤ Pros: Fast Cons: Low accuracy Some existing AI models ➤ Pros: Automated ➤ Cons: Not trained on relevant datasets, poor generalization	
rocus on Jar, tap into be,	2. JOBS-TO-BE-DONE / PROBLEMS a).Need to classify blood cells accurately for diagnosing diseases b).Reduce human error in manual classification c).Speed up blood test result processing d).Overcome shortage of trained professionals	9. PROBLEM ROOT CAUSE a). Traditional blood cell classification is heavily dependent on human skill b). There is no standard, fast, and reliable method available in all areas c). Rising patient load makes manual classification infeasible	7. BEHAVIOUR Direct: Use microscope, take cell count manually, consult pathologist Indirect: Send samples to external labs, rely on delayed reports	
	3. TRIGGERS Increase in diagnostic errors in under-equipped labs Surge in demand for automated healthcare solutions Rise of AI adoption in medical fields Regulatory push for standardized diagnostics	10. YOUR SOLUTION HematVision is a deep learning-powered system that uses transfer learning to classify blood cells accurately. Fast, automated image-based classification Uses pre-trained CNNs fine-tuned on medical data Works offline or on lightweight systems	8. CHANNELS of BEHAVIOUR 8.1 ONLINE Viewing tutorials on microscope usage Accessing cloud diagnostic platforms (if available) Watching YouTube videos on blood cell classification	
Identify strong	4. EMOTIONS: BEFORE / AFTER Before: Confusion, delay, stress, helplessness (especially in rural labs) After: Confidence, clarity, control, accuracy, reliability	 Minimizes diagnostic errors and supports pathologists 	8.2 OFFLINE Manual microscopy and record keeping Printed blood smear atlases Training workshops for lab technicians	



Problem-Solution it canvas is licensed under a Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 license Created by Daria Nepriakhina / Amaltama.com

