# Project Design Phase Problem – Solution Fit Template

Date	26 June 2025
Team ID	LTVIP2025TMID43759
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

## Purpose:

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 6. CUSTOMER 5. AVAILABLE SOLUTIONS 1. CUSTOMER SEGMENT(S) CONSTRAINTS Manual microscope-based diagnosis a) Diagnostic labs (urban & rural) ➤ Pros Low cost a) Limited computing encourses ➤ Cons: Time-consuming, needs expert knowledge b).Hosp itals and healthcare providers b)Lack of Alexandrice in sural labs Rule-based image classifiers ➤ Pros: Fast c) fluight constraints for small clinics c).Pathologists and lab technicians d)No consistent internet in e-materialess Some existing Al model's d).Hedical All companies ➤ Pros Automated 2. JOBS-TO-BE-DONE / PROBLEMS 9. PROBLEM ROOT CAUSE a) Need to dassify blood cells accurately for diagnosing Direct title microscope, tale cell count manually, consult pathologist a).Traditional blood cell classification is heavily dependent on human skill b) Reduce human error in manual classification Indirect: Send samples to external labs, rely on delayed reports. b). There is no standard, fast, and reliable method available in all areas c). Speed up blood test result processing c).Pilsing patient load makes manual classification d). Overcome shortage of trained professional's 3. TRIGGERS 10. YOUR SOLUTION SL CH TR 8. CHANNELS of BEHAVIOUS identify strong TR & EM increase in diagnostic errors in under-equipped labs. Surge in demand for automated healthcare solutions. HematVision is a deep learning-powered systemtha learning to classify blood cells accurately. Fast, automated image-based classification 0.1 ONUNE Viewing tutorials on microscope usage Accessing cloud diagnostic platforms (if available) · Rise of All adoption in medical fields Uses pre-tained ONNs fine-tured on medical data Watching YouTube videos on blood cell dassification · Regulatory push for standardized diagnostics · Worls offline or on lightweight systems Minimizes diagnostic errors and supports pathologists offline 8.2 OFFLINE 4. EMOTIONS: BEFORE / AFTER Manual microscopy and record keeping Printed blood smear atlases Before: Confusion, delay, stress, helplessness (especially in rural lab After: Confidence, clarity, control, accuracy, reliability CH of BE Training worlehops for lab technicians



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