

## Project Design Phase

### Problem – Solution Fit Template

Date	15 February 2025
Team ID	PNT2025TMID04206
Project Name	Vision AI
Maximum Marks	2 Marks

### Problem – Solution Fit Template:

**Problem-Solution fit canvas 2.0**

Purpose / Vision

Define CS, fit into CC	<b>1. CUSTOMER SEGMENT(S)</b> <ul style="list-style-type: none"> <li>Healthcare Providers</li> <li>Hospital Administrators</li> <li>Medical Equipment Suppliers</li> <li>Public Health Researchers</li> </ul>	<b>6. CUSTOMER CONSTRAINTS</b> <ul style="list-style-type: none"> <li>Overwork,</li> <li>resource constraints,</li> <li>lack of time to implement new tech</li> <li>Budget limitations</li> <li>Lack of funding</li> </ul>	<b>5. AVAILABLE SOLUTIONS</b> <ul style="list-style-type: none"> <li><b>Pros</b> :Personalized, no tech dependency</li> <li><b>Tried</b>: Manual retinal image review</li> <li><b>Cons</b>: Time-consuming, error-prone</li> <li><b>Conclusion</b> :</li> <li>Traditional Methods: Slow and error-prone but used due to lack of alternatives</li> <li>Deep Learning Systems: High accuracy and scalability</li> </ul>	Explore AS, differentiate
	<b>2. JOBS-TO-BE-DONE / PROBLEMS</b> <ul style="list-style-type: none"> <li>Speed up eye disease diagnosis</li> <li>Reduce human error in diagnosis</li> <li>Access affordable</li> <li>Improve operational efficiency</li> <li>Develop more effective diagnostic models with minimal data</li> </ul>	<b>9. PROBLEM ROOT CAUSE</b> <ul style="list-style-type: none"> <li>Increasing Prevalence of Eye Diseases</li> <li>Healthcare Resource Constraints</li> <li>Need for Faster, More Accurate Diagnosis</li> <li>Shift Toward Preventive Healthcare</li> <li>Regulatory Pressures</li> <li>Rising Patient Expectations</li> <li>Advancements in AI Technology</li> </ul>	<b>7. BEHAVIOUR</b> <b>Directly :</b> <ul style="list-style-type: none"> <li>Invest time in training staff and adopting new technologies.</li> <li>Use mobile apps for eye screening.</li> </ul> <b>Indirectly :</b> <ul style="list-style-type: none"> <li>Research eye disease prevention and treatment online.</li> <li>Research new machine learning techniques.</li> </ul>	
Identify strong TR & EM	<b>3. TRIGGERS</b> <ul style="list-style-type: none"> <li>Growing Patient Demand: Need for faster, accurate diagnoses.</li> <li>Awareness Campaigns: Articles or health campaigns on early detection.</li> </ul>	<b>10. YOUR SOLUTION</b> <p>The <b>Vision AI</b> an AI-powered tool that automates retinal image analysis to detect and classify eye diseases like diabetic retinopathy, glaucoma, macular degeneration, and cataracts. It aims to speed up diagnosis, enhance accuracy, and make eye disease detection more accessible.</p>	<b>8. CHANNELS OF BEHAVIOUR</b> <ul style="list-style-type: none"> <li>Search for AI diagnostic tools</li> <li>Consult online forums or communities</li> <li>Attend webinars or online conferences</li> </ul>	Extract online & offline CH of BE
	<b>4. EMOTIONS: BEFORE / AFTER</b> <ul style="list-style-type: none"> <li><b>BEFORE</b> :Overwhelmed, stressed, frustrated</li> <li><b>AFTER</b> :Confident, efficient, in control</li> </ul>		<ul style="list-style-type: none"> <li>Consult with peers in-person</li> <li>Visit doctors for eye check-ups</li> <li>Collaborate with healthcare institutions</li> </ul>	

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