Project Design Phase-I
Problem – Solution Fit Template

Date	8th October 2022
Team ID	PNT2022TMID53623
Project Name	Project - A Gesture-based Tool for Sterile Browsing of Radiology Images
Maximum Marks	2 Marks

Define CS, fit into CC

1. CUSTOMER SEGMENT(S) — CS
Who is your customer?
I.e. working parents of 0-5 y.o. kids

X-ray Technicians and Radiologists

6. CUSTOMER CONSTRAINTS — CC
What constraints prevent your customers from taking action or limit their choices of solutions? I.e. spending power, budget, no cash, network connection, available devices.

Power consumption, Network connection, Camera availability

5. AVAILABLE SOLUTIONS — AS
Which solutions are available to the customers when they face the problem or need to get the job done? What have they tried in the past? What pros & cons do these solutions have? I.e. pen and paper is an alternative to digital notetaking

Browsing x-rays and radiology images using a touchscreen interface as common touch surfaces lead to spread of infection.

Explore AS, differentiate

Focus on J&P, tap into BE, understand RC

2. JOBS-TO-BE-DONE / PROBLEMS — J&P
Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore different sides.

1. Resize
2. Flip
3. Blur
4. Rectangle

9. PROBLEM ROOT CAUSE — RC
What is the real reason that this problem exists? What is the back story behind the need to do this job? I.e. customers have to do it because of the change in regulations.

Hospital need this due to several safety concerns

7. BEHAVIOUR — BE
What does your customer do to address the problem and get the job done? I.e. directly related: find the right solar panel installer, calculate usage and benefits; indirectly associated: customers spend free time on volunteering work (i.e. Greenpeace)

Using touchscreen devices or hardcopies as regular browsing methods.

Focus on J&P, tap into BE, understand RC

Identify strong TR & EM

3. TRIGGERS — TR
What triggers customers to act? I.e. seeing their neighbour installing solar panels, reading about a more efficient solution in the news.

Need for a clean and contact free viewing of the x-rays

4. EMOTIONS: BEFORE / AFTER — EM
How do customers feel when they face a problem or a job and afterwards? I.e. lost, insecure > confident, in control - use it in your communication strategy & design.

unclean, unsterile(before)
clean, sterile and safe(after)

10. YOUR SOLUTION — SL
If you are working on an existing business, write down your current solution first, fill in the canvas, and check how much it fits reality.
If you are working on a new business proposition, then keep it blank until you fill in the canvas and come up with a solution that fits within customer limitations, solves a problem and matches customer behaviour.

Application to browse radiology images using hand gestures instead of touch.

8. CHANNELS of BEHAVIOUR — CH
8.1 ONLINE
What kind of actions do customers take online? Extract online channels from #7
8.2 OFFLINE
What kind of actions do customers take offline? Extract offline channels from #7 and use them for customer development.

Online:-All browsing of the x-rays and radiology images will be online.

Offline:-No functionality is available offline.

Identify strong TR & EM